2015 FRONTIER

OWNER'S MANUAL

For your safety, read carefully and keep in this vehicle.

Information Provided by:
DEALER E-PROCESS

Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many miles (kilometers) of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information Booklet explains details about the warranties covering your vehicle. The "NISSAN Service and Maintenance Guide" explains details about maintaining and servicing your vehicle. Additionally, a separate Customer Care/Lemon Law Booklet (U.S. only) will explain how to resolve any concerns you may have with your vehicle, and clarify your rights under your state's lemon law.

Your NISSAN dealership knows your vehicle best. When you require any service or have any questions, they will be glad to assist you with the extensive resources available to them.

In addition to factory-installed options, your vehicle may also be equipped with additional accessories installed by NISSAN or by your NISSAN dealer prior to delivery. It is important that you familiarize yourself with all disclosures, warnings, cautions and instructions concerning proper use of such accessories prior to operating the vehicle and/or accessory. See a NISSAN dealer for details concerning the particular accessories with which your vehicle is equipped.

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Before driving your vehicle, please read this Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements assisting you in the safe operation of your vehicle.

⚠ WARNING

IMPORTANT SAFETY INFORMATION REMINDERS FOR SAFETY!

Follow these important driving rules to help ensure a safe and comfortable trip for you and your passengers!

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.**
- **ALWAYS use your seat belts and appropriate child restraint systems. Pre-teen children should be seated in the rear seat.**
- **ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **ALWAYS review this Owner's Manual for important safety information.**

For descriptions specified for 4-wheel drive models, a 4x4 mark is placed at the beginning of the applicable sections/items.

As with other vehicles with features for off-road use, failure to operate 4-wheel drive models correctly may result in loss of control or a collision. For additional information, refer to "Driving safety precautions" in the "Starting and driving" section of this manual.

ON-PAVEMENT AND OFF-ROAD DRIVING

This vehicle will handle and maneuver differently from an ordinary passenger car because it has a higher center of gravity for off-road use. As with other vehicles with features of this type, failure to operate this vehicle correctly may result in loss of control or an accident.

For additional information, refer to "On-pavement and off-road driving precautions," "Avoiding collision and rollover" and "Driving safety precautions" in the "Starting and driving" section of this manual.

MODIFICATION OF YOUR VEHICLE

This vehicle should not be modified. Modification could affect its performance, safety or durability and may even violate governmental regulations. In addition, damage or performance problems resulting from modifications may not be covered under NISSAN warranties.

This manual includes information for all features and equipment available on this model. Features and equipment in your vehicle may vary depending on model, trim level, options selected, order, date of production, region or availability. Therefore, you may find information about features or equipment that are not included or installed on your vehicle.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications, performance, design or component suppliers without notice and without obligation. From time to time, NISSAN may update or revise this manual to provide Owners with the most accurate information currently available. Please carefully read and retain with this manual all revision updates sent to you by NISSAN to ensure you have access to accurate and up-to-date information regarding your vehicle. Current versions of vehicle Owner's Manuals and any updates can also be found in the Owner section of the NISSAN website at **https://owners.nissanusa.com/nowners/navigation/manualsGuide**. If you have questions concerning any information in your Owner's Manual, contact NISSAN Consumer Affairs. See the NISSAN CUSTOMER CARE PROGRAM page in this Owner's Manual for contact information.

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IMPORTANT INFORMATION ABOUT THIS MANUAL

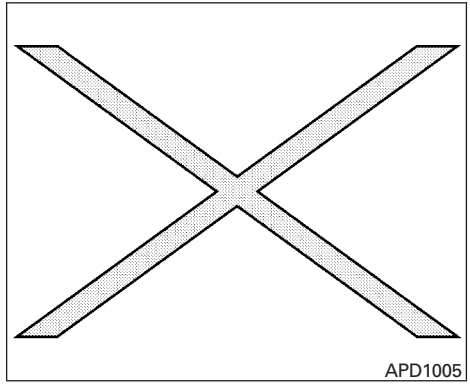
You will see various symbols in this manual. They are used in the following ways:

⚠ WARNING

This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

⚠ CAUTION

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.



If you see this symbol, it means **"Do not do this"** or **"Do not let this happen."**

If you see a symbol similar to these in an illustration, it means the arrow points to the front of the vehicle.

Arrows in an illustration that are similar to these indicate movement or action.

Arrows in an illustration that are similar to these call attention to an item in the illustration.

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CALIFORNIA PROPOSITION 65 WARNING

⚠ WARNING

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CALIFORNIA PERCHLORATE ADVISORY

Some vehicle parts, such as lithium batteries, may contain perchlorate material. The following advisory is provided: "Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate/".

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NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES . . .

Both NISSAN and your NISSAN dealer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your NISSAN dealer are our primary concerns. Your NISSAN dealer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact the NISSAN Consumer Affairs Department using our toll-free number:

For U.S. customers
1-800-NISSAN-1
(1-800-647-7261)

For Canadian customers
1-800-387-0122

The Consumer Affairs Department will ask for the following information:

- Your name, address, and telephone number
- Vehicle identification number (attached to the top of the instrument panel on the driver's side)
- Date of purchase
- Current odometer reading
- Your NISSAN dealer's name
- Your comments or questions

OR

You can write to NISSAN with the information at:

For U.S. customers
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003
or via e-mail at:
nnaconsumeraffairs@nissan-usa.com

For Canadian customers
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5
or via e-mail at:
information.centre@nissancanada.com

If you prefer, visit us at:
www.nissanusa.com (for U.S. customers) or
www.nissan.ca (for Canadian customers)

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

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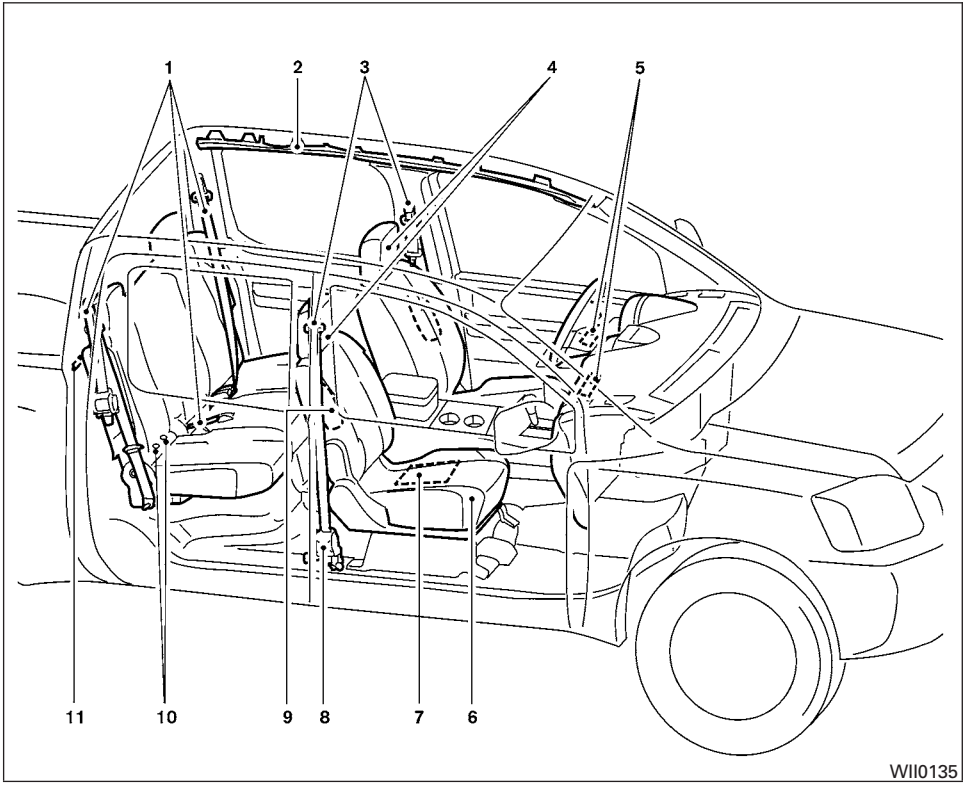
AIR BAGS, SEAT BELTS AND CHILD RESTRAINTS



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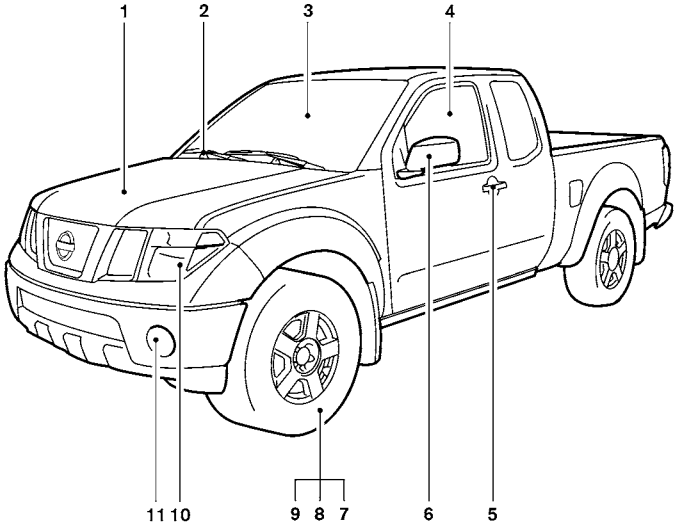

LII0052

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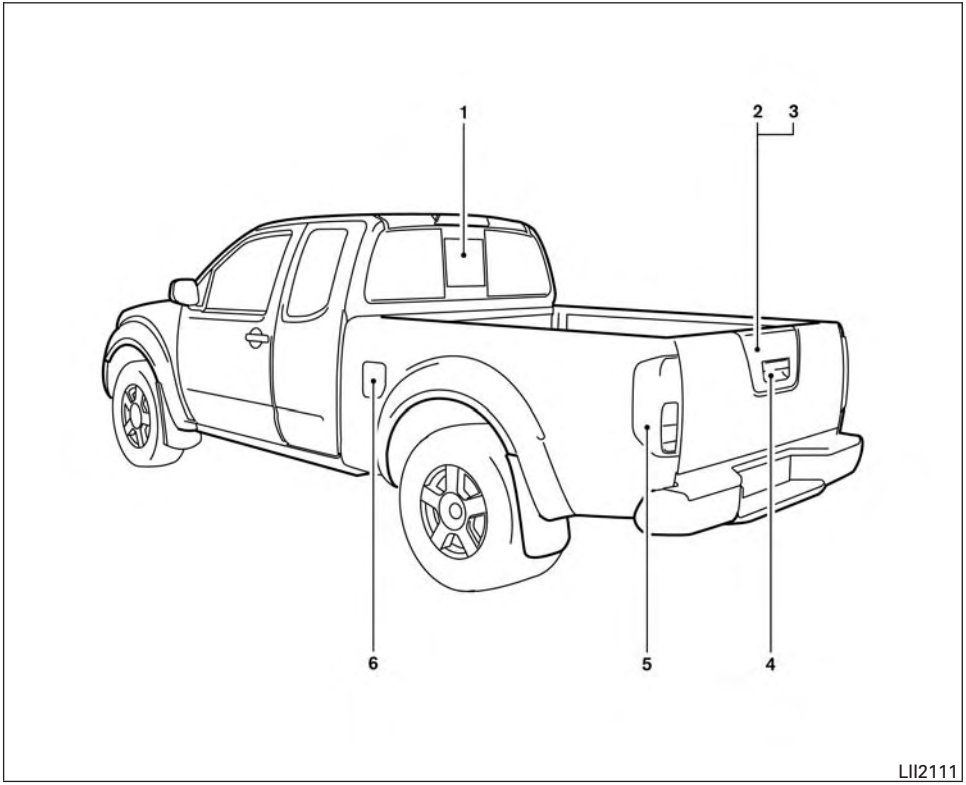

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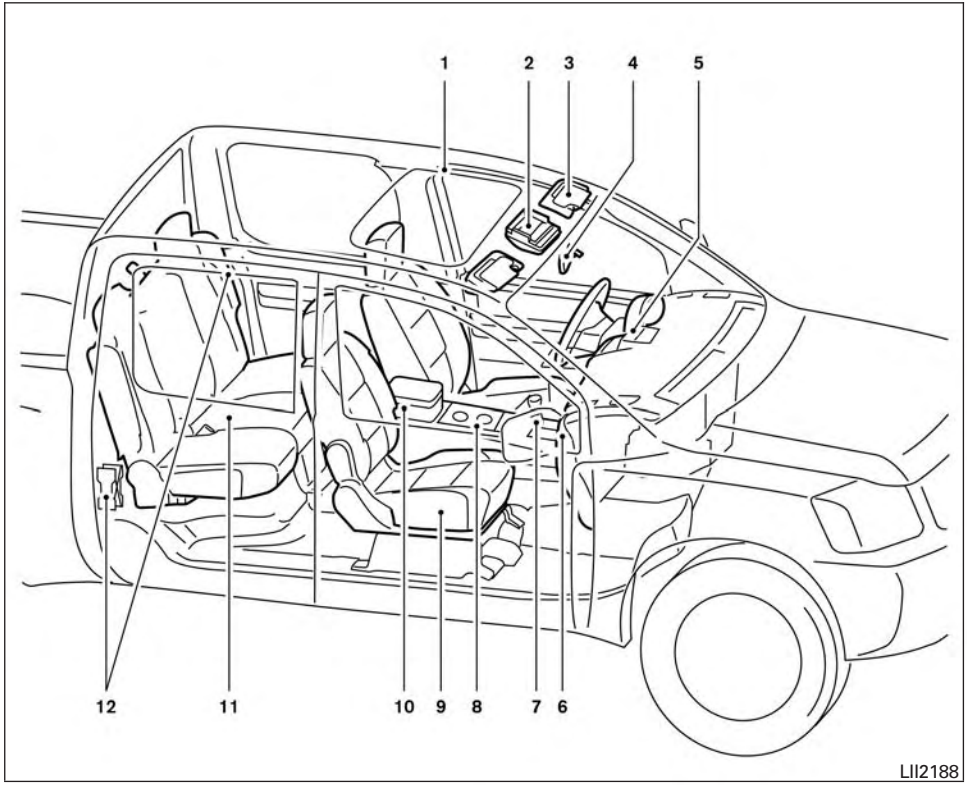

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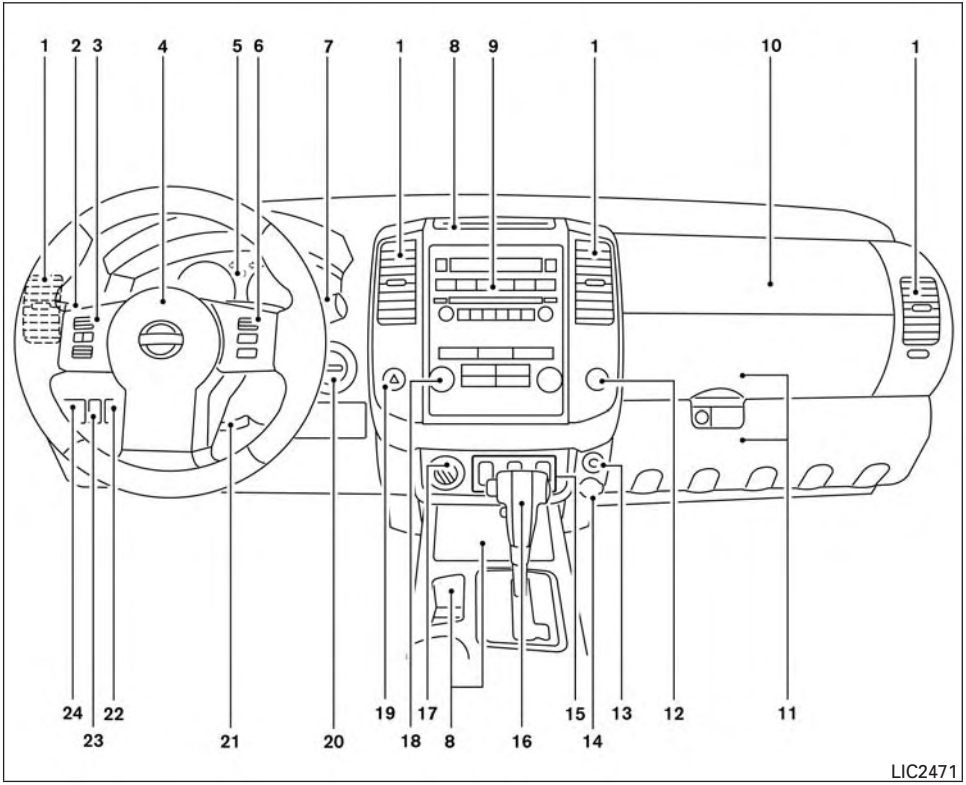

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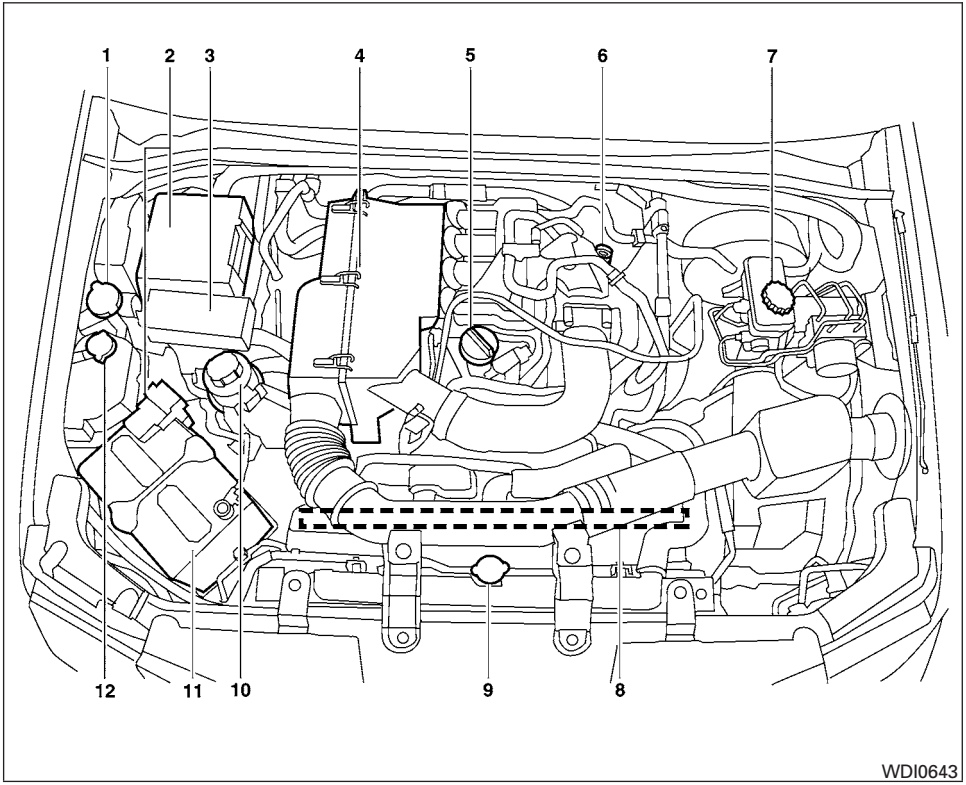

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Refer to the page number indicated in parentheses for operating details.

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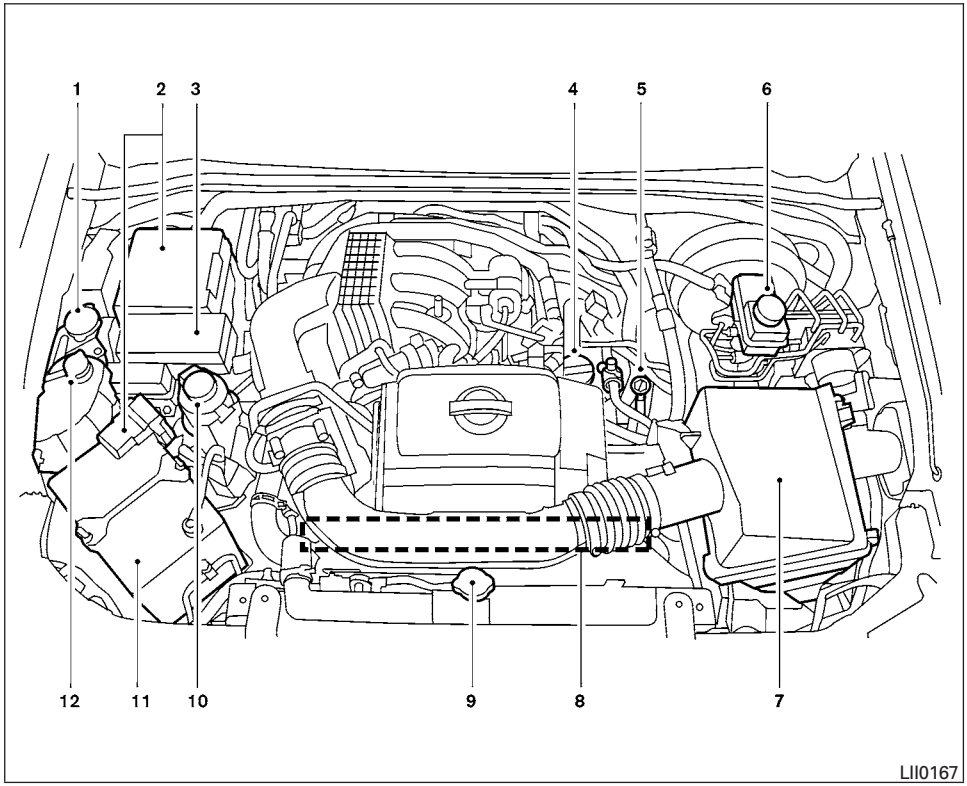

VQ40DE engine

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***Engine cover removed for clarity.**

Refer to the page number indicated in parentheses for operating details.

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1 Safety—Seats, seat belts and supplemental restraint system

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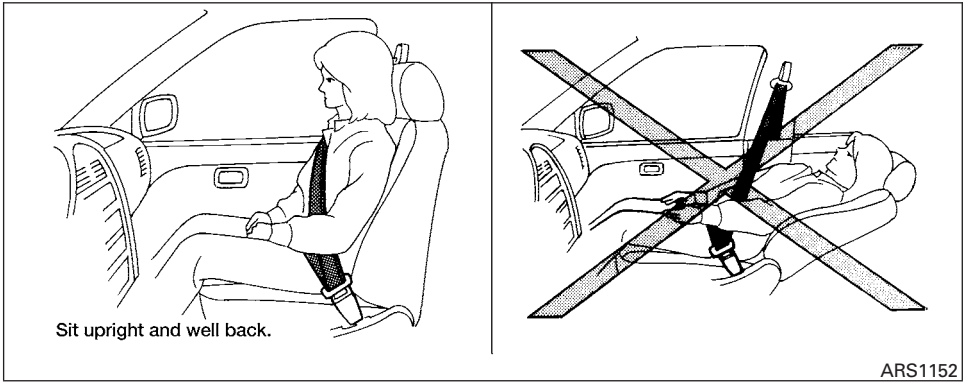

⚠WARNING

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat properly. For additional information, refer to "Precautions on seat belt usage" in this section.**
- **After adjustment, gently rock in the seat to make sure it is securely locked.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **Do not adjust the driver's seat while driving so full attention may be given to vehicle operation. The seat may move suddenly and could cause loss of control of the vehicle.**
- **The seatback should not be reclined any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat. If the seatback is reclined, the risk of sliding under the lap belt and being injured is increased.**

⚠CAUTION

When adjusting the seat positions, be sure not to contact any moving parts to avoid possible injuries and/or damage.

FRONT MANUAL SEAT ADJUSTMENT (if so equipped)

Your vehicle seats can be adjusted manually. For additional information about adjusting the seats, refer to the steps outlined in this section.

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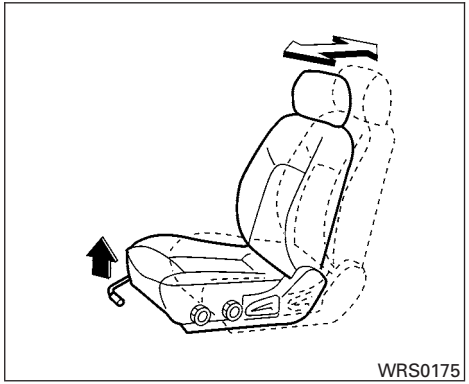
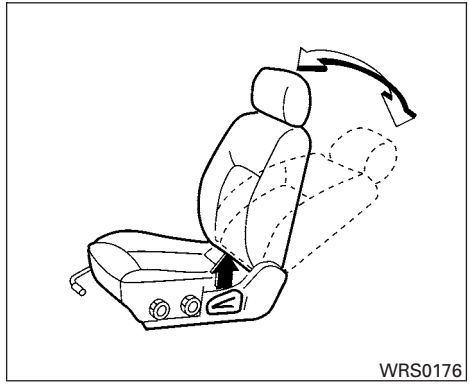


Forward and backward

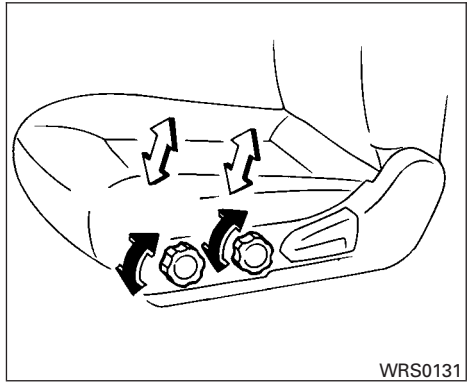
Pull the lever up and hold it while you slide the seat forward or backward to the desired position. Release the lever to lock the seat in position.



Reclining

To recline the seatback, pull the lever up and lean back. To bring the seatback forward, pull the lever up and lean your body forward. Release the lever to lock the seatback in position.

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. For additional information, refer to “Precautions on seat belt usage” in this section. Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped and the shift lever is in P (Park) or N (Neutral) position with the parking brake fully applied.



Seat lifter (if so equipped for driver’s seat)

Turn either dial to adjust the angle and height of the seat cushion to the desired position.

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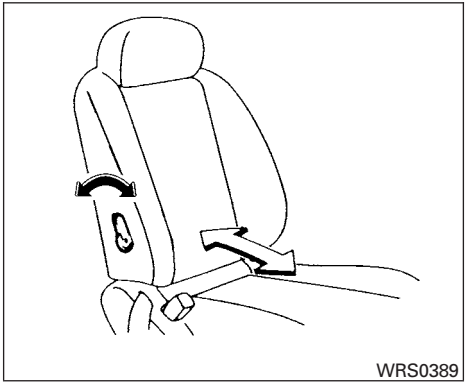
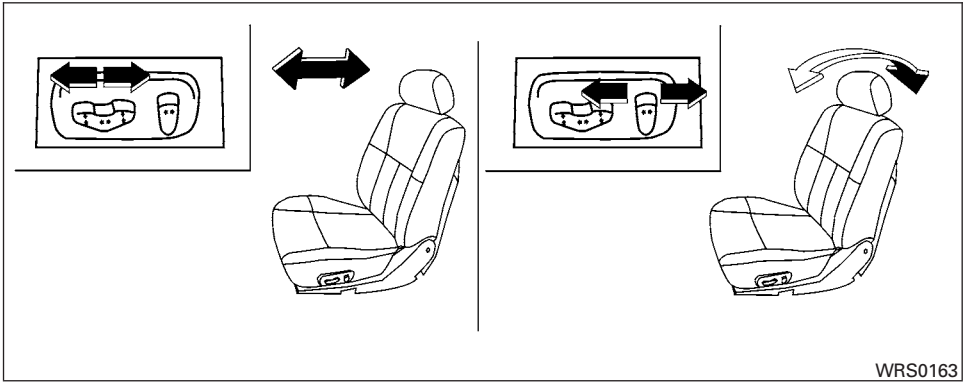
DEMAND E-PROCESS



Lumbar support (if so equipped for driver's seat)

The lumbar support feature provides adjustable lower back support to the driver. Move the lever forward or backward to adjust the seat lumbar area.



FRONT POWER SEAT ADJUSTMENT (if so equipped)

Operating tips

- The power seat motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds then reactivate the switch.
- Do not operate the power seat switch for a long period of time when the engine is off. This will discharge the battery.

Forward and backward

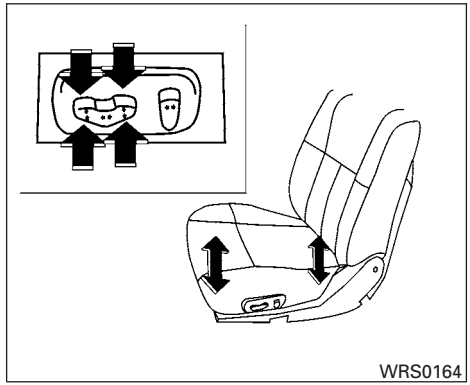
Moving the switch forward or backward will slide the seat forward or backward to the desired position.

Reclining

Move the recline switch backward until the desired angle is obtained. To bring the seatback forward again, move the switch forward and move your body forward. The seatback will move forward.

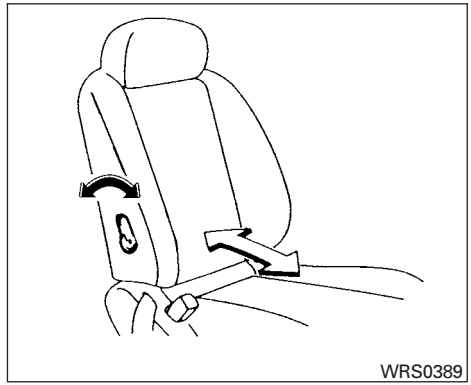
Information Provided by:

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. For additional information,, refer to “Precautions on seat belt usage” in this section. Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped and the shift lever is in P (Park) or N (Neutral) position with the parking brake fully applied.


WRS0164

Seat lifter (if so equipped for driver’s seat)

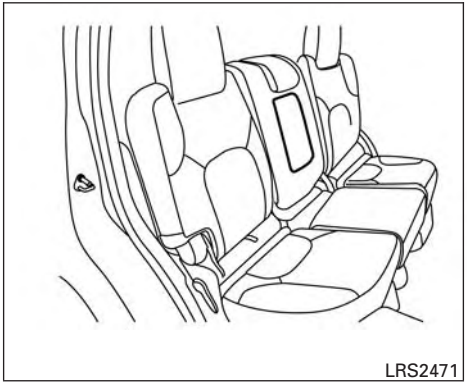
Push the front or rear end of the switch up or down to adjust the angle and height of the seat cushion.


WRS0389

Lumbar support (if so equipped for driver’s seat)

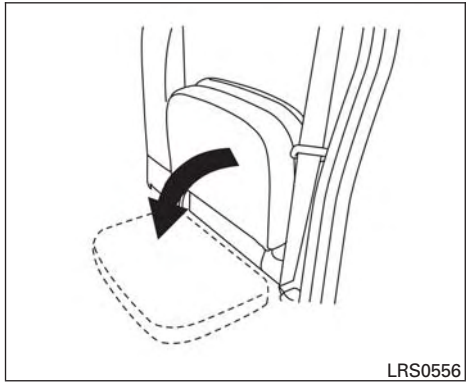
The lumbar support feature provides adjustable lower back support to the driver. Move the lever forward or backward to adjust the seat lumbar area.

Information Provided by:


LRS2471

REAR BENCH SEAT (if so equipped)

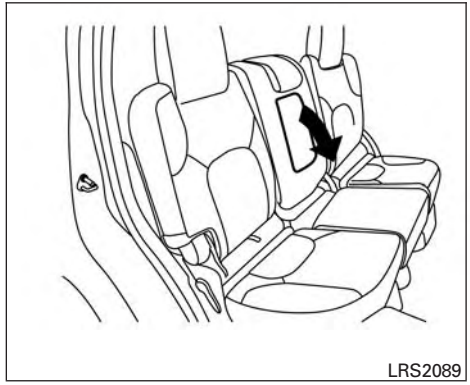
The rear bench seat is non-adjustable. However, the seats can be folded up and folded to lay flat. For additional information, refer to “Flexible seating” in this section.


LRS0556

JUMP SEAT (if so equipped)

⚠ WARNING

- **Do not use a child restraint in the driver’s side jump seat. This seating position is not suitable for child restraint installation. A child restraint can be installed in the passenger’s side jump seat when the seat extension is unfolded from the seat base.**
- **When folding the jump seat, be careful not to squeeze your finger between the seat cushion and the body side.**


LRS2089

ARMREST (if so equipped)

To use the center armrest on the rear bench seat, pull on the tab in the center of the seat and fold it down to the resting position.

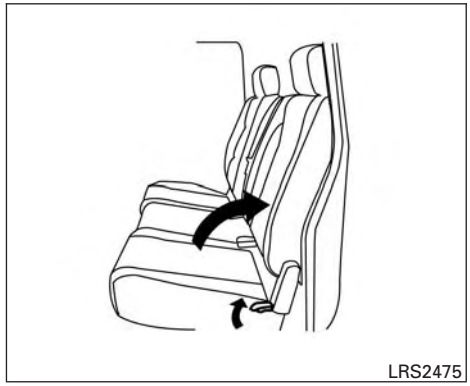
FLEXIBLE SEATING

⚠ WARNING

- **Never allow anyone to ride in the cargo area or on the rear seats when they are in the fold-down position. In a collision, people riding in these areas without proper restraints are more likely to be seriously injured or killed.**

Information Provided by:

- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. Be sure everyone in your vehicle is in a seat and using a seat belt properly.**
- **Do not allow more than one person to use the same seat belt.**
- **Do not fold down the rear seats when occupants are in the rear seat area or any luggage is on the rear seats.**
  - **Make sure that the seat path is clear before moving the seat.**
  - **Be careful not to allow hands or feet to get caught or pinched in the seat.**
- **Head restraints/headrests should be adjusted properly as they may provide significant protection against injury in an accident. Always replace and adjust them properly if they have been removed for any reason.**
- **If the head restraints/headrests are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

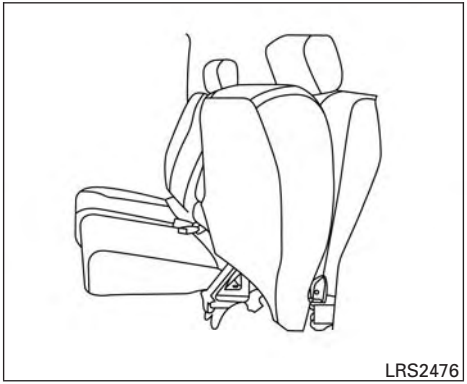


Folding the rear bench seat up (if so equipped)

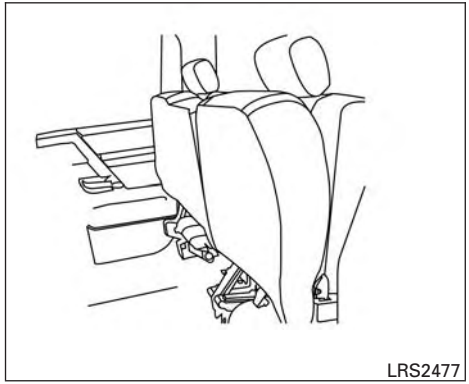
To fold the rear bench seat up:

1. Lift up on the lever, located on the side of the seat, while lifting the front of the seat cushion up.

Information Provided by:


LRS2476

2. Fold the bottom of the seat cushion toward the back of the vehicle until it locks in place.


LRS2477

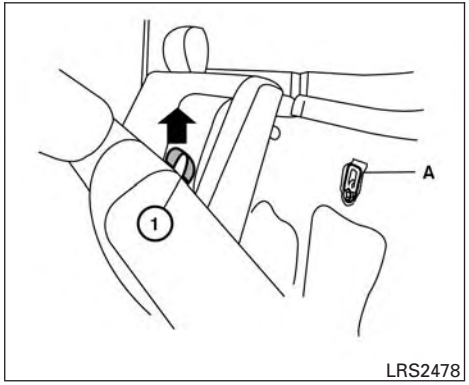
3. Repeat this process to raise and secure the seat cushion on the other side of the vehicle for maximum storage capacity.

To return the rear bench seat to a seating position, reverse the process. **Make sure to properly push the seat cushion down into place.**

⚠ WARNING

- **When the vehicle is being used to carry cargo, properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. Be sure everyone in your vehicle is in a seat and using a seat belt properly. Never ride in the rear seat unless the seat bottom cushions are in place and latched.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**

Information Provided by:



A. Child restraint anchor points

Folding the rear bench seat down (if so equipped)

The rear bench seatback can be tilted forward to access the child restraint anchor point locations or the jacking equipment.

To tilt the seatback forward, pull the strap up ① and tilt the seatback. The child restraint anchor points can be accessed behind the rear bench seatback. The jacking equipment can be accessed from behind the passenger's side seatback.

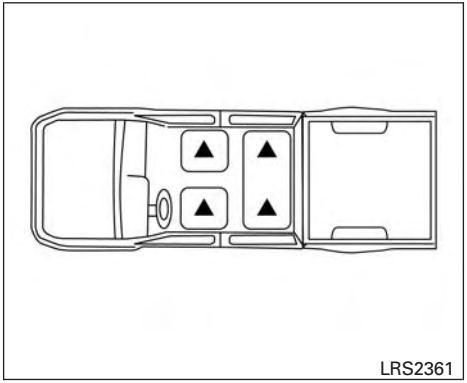
⚠WARNING

Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.

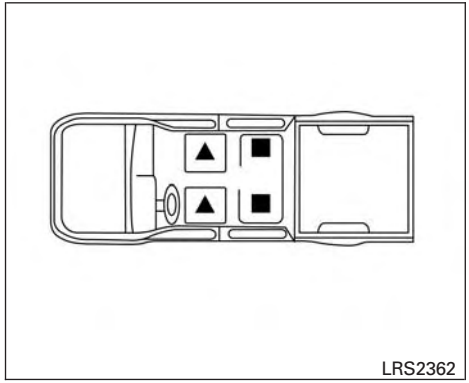
⚠WARNING

Head restraints/headrests supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjustable head restraints/headrests must be adjusted properly, as specified in this section. Check the adjustment after someone else uses the seat. Do not attach anything to the head restraint/headrest stalks or remove the head restraint/headrest. Do not use the seat if the head restraint/headrest has been removed. If the head restraint/headrest was removed, reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the head restraints/headrests. This may increase the risk of serious injury or death in a collision.

Information Provided by:



Crew Cab



King Cab

The illustration shows the seating positions equipped with head restraints/headrests.

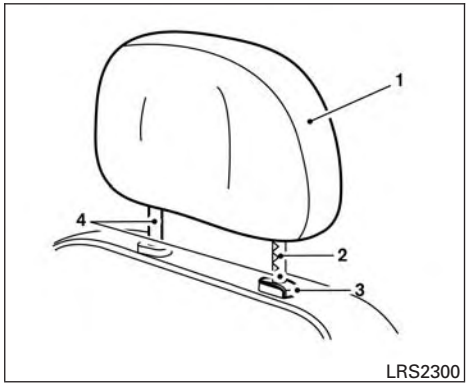
▲ Indicates the seating position is equipped with a head restraint.

■ Indicates the seating position is equipped with a headrest.

+ Indicates the seating position is not equipped with a head restraint or headrest (if applicable).

- Your vehicle is equipped with a head restraint/headrest that may be integrated, adjustable or non-adjustable.
- Adjustable head restraints/headrests have multiple notches along the stalk(s) to lock them in a desired adjustment position.
- The non-adjustable head restraints/ headrests have a single locking notch to secure them to the seat frame.
- Proper Adjustment:
  - For the adjustable type, align the head restraint/headrest so the center of your ear is approximately level with the center of the head restraint/headrest.
  - If your ear position is still higher than the recommended alignment, place the head restraint/headrest at the highest position.
- If the head restraint/headrest has been removed, ensure that it is reinstalled and locked in place before riding in that designated seating position.

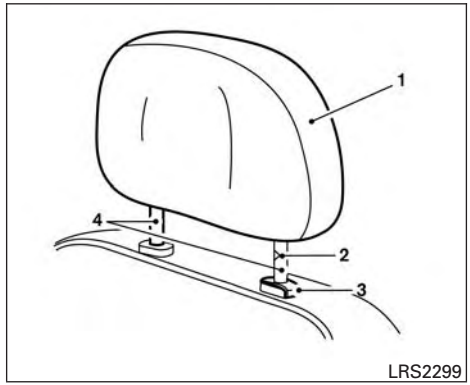
Information Provided by:
DEALER E-PROCESS



LRS2300

ADJUSTABLE HEAD RESTRAINT/ HEADREST COMPONENTS

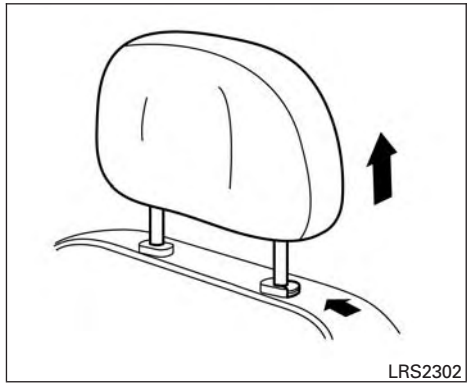
1. Removable head restraint/headrest
2. Multiple notches
3. Lock knob
4. Stalks



LRS2299

NON-ADJUSTABLE HEAD RESTRAINT/HEADREST COMPONENTS

1. Removable head restraint/headrest
2. Single notch
3. Lock knob
4. Stalks


LRS2302

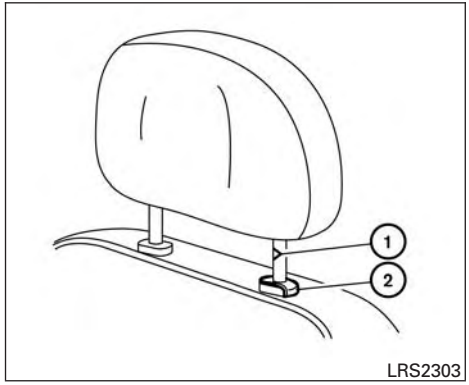
REMOVE

Use the following procedure to remove the head restraint/headrest:

1. Pull the head restraint/headrest up to the highest position.
2. Push and hold the lock knob.
3. Remove the head restraint/headrest from the seat.
4. Store the head restraint/headrest properly in a secure place so it is not loose in the vehicle.

Information Provided by DEALER E-PROCESS

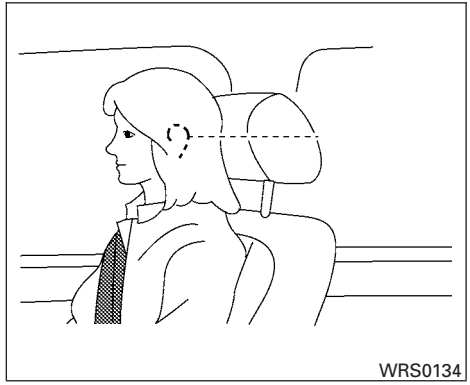
5. Reinstall and properly adjust the head restraint/headrest before an occupant uses the seating position.



LRS2303

INSTALL

1. Align the head restraint/headrest stalks with the holes in the seat. Make sure that the head restraint/headrest is facing the correct direction. The stalk with the notch (notches) ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint/headrest down.
3. Properly adjust the head restraint/headrest before an occupant uses the seating position.

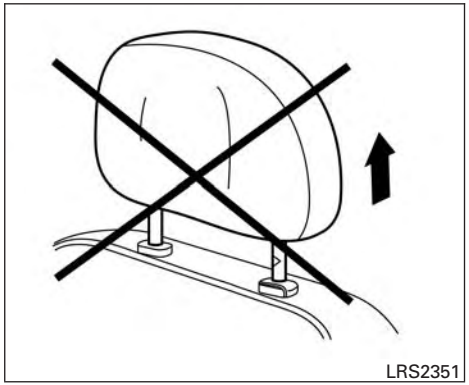

WRS0134

ADJUST

For adjustable head restraint/headrest

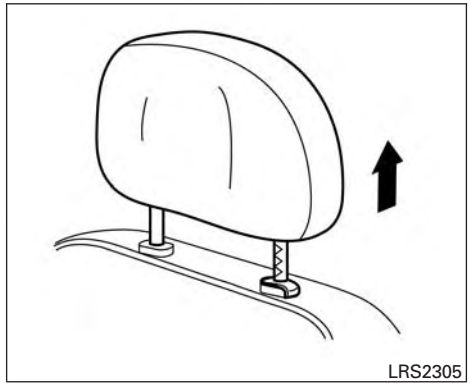
Adjust the head restraint/headrest so the center is level with the center of your ears. If your ear position is still higher than the recommended alignment, place the head restraint/headrest at the highest position.

Information Provided by:
DEALER E-PROCESS



For non-adjustable head restraint/headrest

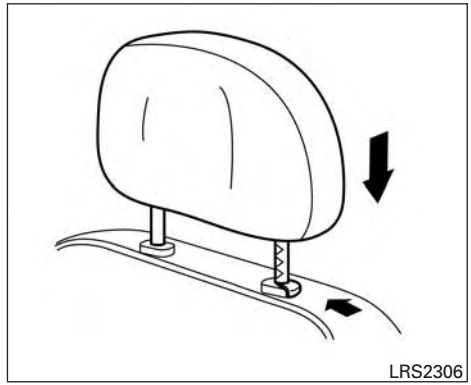
Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.



Raise

To raise the head restraint/headrest, pull it up.

Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

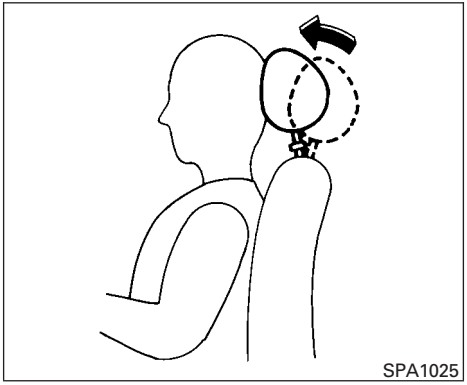


Lower

To lower, push and hold the lock knob and push the head restraint/headrest down.

Make sure the head restraint/headrest is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

Information Provided by



FRONT-SEAT ACTIVE HEAD RESTRAINTS

⚠ WARNING

- **Always adjust the head restraints properly as specified in this section. Failure to do so can reduce the effectiveness of the active head restraint.**
- **Active head restraints are designed to supplement other safety systems. Always wear seat belts. No system can prevent all injuries in any accident.**
- **Do not attach anything to the head restraint stalks. Doing so could impair active head restraint function.**

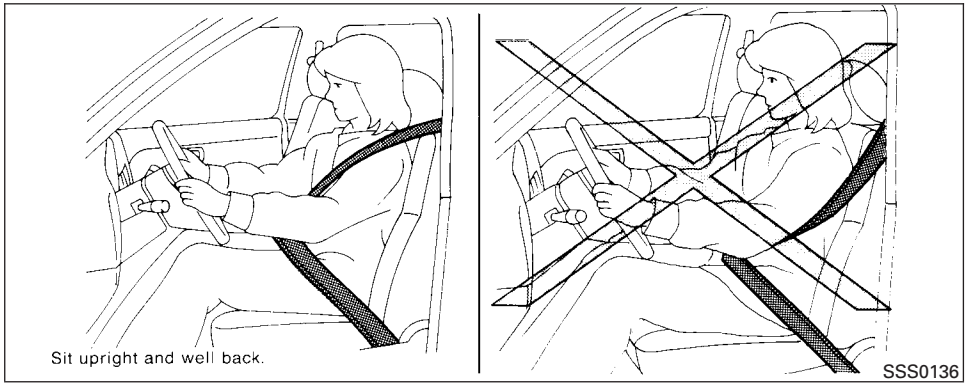
The active head restraint moves forward utilizing the force that the seatback receives from the occupant in a rear-end collision. The movement of the head restraint helps support the occupant's head by reducing its backward movement and helping absorb some of the forces that may lead to whiplash-type injuries.

Active head restraints are effective for collisions at low to medium speeds in which it is said that whiplash injury occurs most.

Active head restraints operate only in certain rear-end collisions. After the collision, the head restraints return to their original positions.

Properly adjust the active head restraints as described in this section.

Information Provided by:
DEALER E-PROCESS

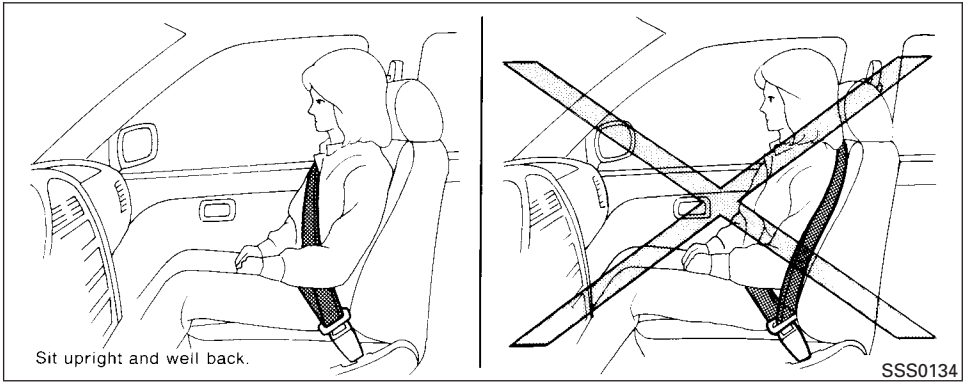


PRECAUTIONS ON SEAT BELT USAGE

If you are wearing your seat belt properly adjusted and you are sitting upright and well back in your seat with both feet on the floor, your chances of being injured or killed in a collision and/or the severity of injury may be greatly reduced. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

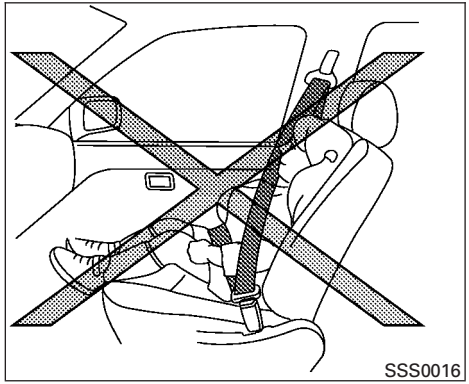
Most U.S. states and Canadian provinces or territories specify that seat belts be worn at all times when a vehicle is being driven.

Information Provided by



⚠WARNING

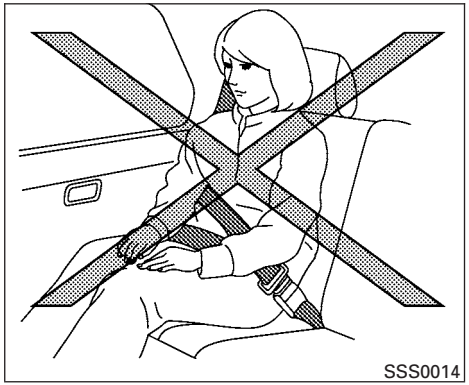
- **Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint.**



⚠WARNING

- **The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.**

Information Provided by:
DEALER E-PROCESS


SSS0014

⚠WARNING

- **Always route the shoulder belt over your shoulder and across your chest. Never put the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.**
- **Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.**
- **Be sure the seat belt tongue is securely fastened to the proper buckle.**
- **Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.**
- **Do not allow more than one person to use the same seat belt.**
- **Never carry more people in the vehicle than there are seat belts.**
- **If the seat belt warning light glows continuously while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked by a NISSAN dealer.**
- **No changes should be made to the seat belt system. For example, do not modify the seat belt, add material, or install devices that may change the seat belt routing or tension. Doing so may affect the operation of the seat belt system. Modifying or tampering with the seat belt system may result in serious personal injury.**
- **Once a seat belt pretensioner has activated, it cannot be reused and must be replaced together with the retractor. See your NISSAN dealer.**
- **Removal and installation of pretensioner system components should be done by a NISSAN dealer.**
- **All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision by a NISSAN dealer. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.**
- **All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.**

Information Provided by DEALER E-PROCESS

LRS0786

SEAT BELT WARNING LIGHT

Both the driver's and passenger's front seats are equipped with a seat belt warning light. The warning light, located on the instrument panel, will show the status of the driver and passenger seat belt.

NOTE:

The front passenger seat belt warning light will not light up if the seat is not occupied.

For additional information, refer to "Warning/indicator lights and audible reminders" in the "Instruments and controls" section of this manual.

PREGNANT WOMEN

NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

INJURED PERSONS

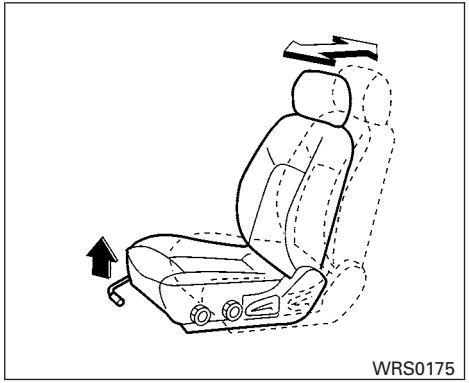
NISSAN recommends that injured persons use seat belts. Check with your doctor for specific recommendations.

THREE-POINT TYPE SEAT BELT WITH RETRACTOR

⚠ WARNING

- **Every person who drives or rides in this vehicle should use a seat belt at all times.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat belt properly.**
- **Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.**

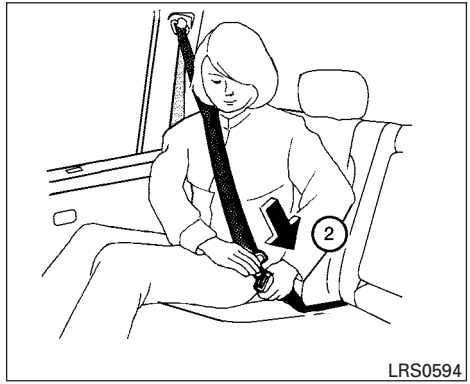
Information Provided by: DEALER E-PROCESS



Manual front seat shown

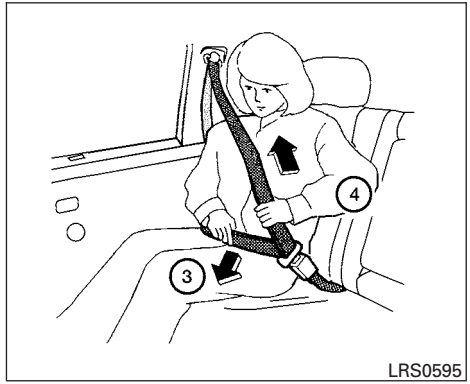
Fastening the seat belts (front seats all models and rear seats Crew Cab models)

1. Adjust the seat. For additional information, refer to “Seats” in this section.



② Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.

- **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the seat belt to move, and allows you some freedom of movement in the seat.**
- **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**



③ Position the lap belt portion **low and snug on the hips** as shown.

④ Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and across your chest.

The front passenger seat and the rear seating positions three-point seat belts have two modes of operation:

- Emergency Locking Retractor (ELR)
- Automatic Locking Retractor (ALR)

Information Provided by

The ELR mode allows the seat belt to extend and retract to allow the driver and passengers some freedom of movement in the seat. The ELR locks the seat belt when the vehicle slows down rapidly or during certain impacts.

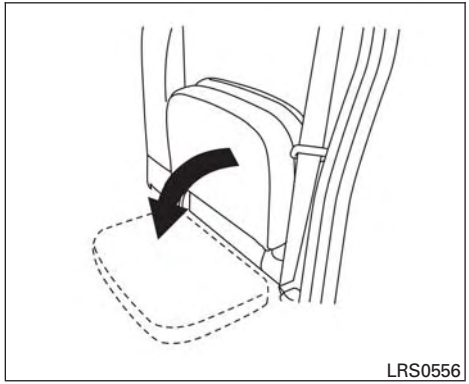
The ALR mode (child restraint mode) locks the seat belt for child restraint installation.

When the ALR mode is activated, the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. The seat belt returns to the ELR mode after the seat belt fully retracts. For additional information, refer to “Child restraints” in this section.

The ALR mode should be used only for child restraint installation. During normal seat belt use by an occupant, the ALR mode should not be activated. If it is activated it may cause uncomfortable seat belt tension. It can also change the operation of the front passenger air bag. For additional information, refer to “Front passenger air bag and status light” in this section.

⚠ WARNING

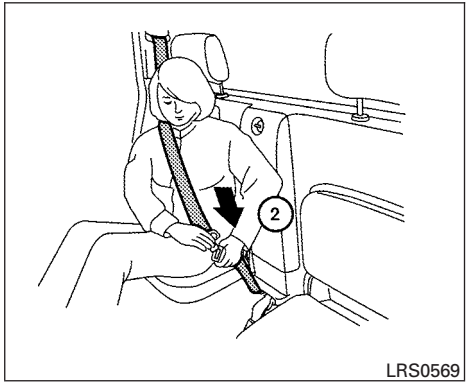
When fastening the seat belts, be certain that the seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.



Fastening the seat belts (jump seats — King Cab models)

1. Open the jump seat. For additional information, refer to “Seats” in this section.

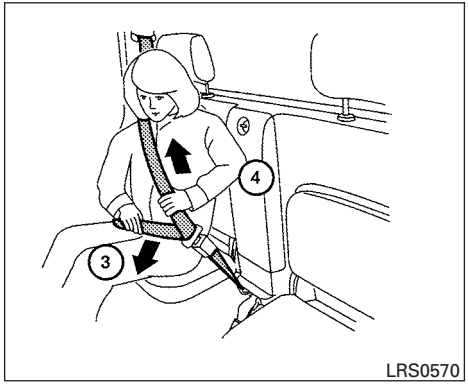
Information Provided by:
DEALER E-PROCESS



LRS0569

② Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.

- **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the seat belt to move, and allows you some freedom of movement in the seat.**
- **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**



LRS0570

③ Position the lap belt portion **low and snug on the hips** as shown.

④ Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and across your chest.

The jump seat position's three-point seat belts have two modes of operation:

- Emergency Locking Retractor (ELR)
- Automatic Locking Retractor (ALR)

The ELR mode allows the seat belt to extend and retract to allow the driver and passengers some freedom of movement in the seat. The ELR locks the seat belt when the vehicle slows down rapidly or during certain impacts.

The ALR mode (child restraint mode) locks the seat belt for child restraint installation.

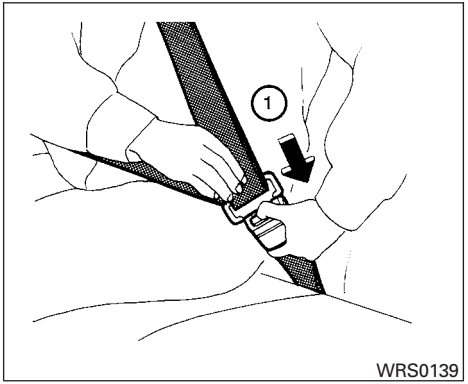
When the ALR mode is activated, the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. The seat belt returns to the ELR mode after the seat belt fully retracts. For additional information, refer to "Child restraints" in this section.

The ALR mode should be used only for child restraint installation. During normal seat belt use by an occupant, the ALR mode should not be activated. If it is activated it may cause uncomfortable seat belt tension. It can also change the operation of the front passenger air bag. For additional information, refer to "Front passenger air bag and status light" in this section.

⚠WARNING

When fastening the seat belts, be certain that the seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.

Information provided by



Unfastening the seat belts

① To unfasten the seat belt, press the button on the buckle. The seat belt automatically retracts.

Checking seat belt operation

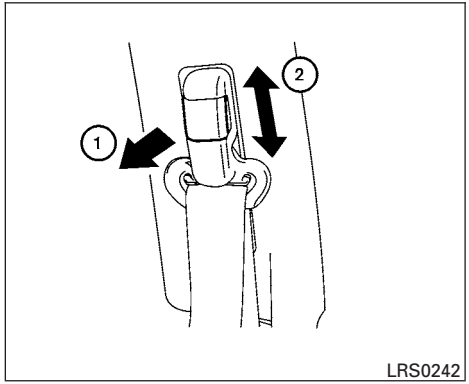
Seat belt retractors are designed to lock seat belt movement by two separate methods:

- When the seat belt is pulled quickly from the retractor
- When the vehicle slows down rapidly

To increase your confidence in the seat belts, check the operation as follows:

- Grasp the shoulder belt and pull forward quickly. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check or if you have any questions about seat belt operation, see a NISSAN dealer.



Shoulder belt height adjustment (front seats)

The shoulder belt anchor height should be adjusted to the position best for you. For additional information, refer to “Precautions on seat belt usage” in this section. To adjust, pull out the adjustment button ① and move the shoulder belt anchor to the desired position ②, so the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

Information Provided by:
DEALER E-PROCESS

⚠WARNING

- **After adjustment, release the adjustment button and try to move the shoulder belt anchor up and down to make sure it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

SEAT BELT EXTENDERS

If, because of body size or driving position, it is not possible to properly fit the lap/shoulder belt and fasten it, an extender that is compatible with the installed seat belts is available for purchase. The extender adds approximately 8 in (200 mm) of length and may be used for either the driver or front passenger seating position. See a NISSAN dealer for assistance with purchasing an extender if an extender is required.

⚠WARNING

- **Only NISSAN seat belt extenders, made by the same company which made the original equipment seat belts, should be used with NISSAN seat belts.**
- **Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.**
- **Never use seat belt extenders to install child restraints. If the child restraint is not secured properly, the child could be seriously injured in a collision or a sudden stop.**

SEAT BELT MAINTENANCE

- **To clean the seat belt webbing,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpet. Then wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- **If dirt builds up in the shoulder belt guide of the seat belt anchors,** the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- **Periodically check to see that the seat belt and the metal components,** such as buckles, tongues, retractors, flexible wires and anchors, work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.

Information Provided by DEALER E-PROCESS

⚠WARNING

Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.

Children need adults to help protect them. They need to be properly restrained.

In addition to the general information in this manual, child safety information is available from many other sources, including doctors, teachers, government traffic safety offices, and community organizations. Every child is different, so be sure to learn the best way to transport your child.

There are three basic types of child restraint systems:

- Rear-facing child restraint
- Forward-facing child restraint
- Booster seat

The proper restraint depends on the child's size. Generally, infants up to about 1 year and less than 20 lbs (9 kg) should be placed in rear-facing child restraints. Forward-facing child restraints are available for children who outgrow rear-facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a forward-facing child restraint.

⚠WARNING

Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. For additional information, refer to "Child restraints" in this section.

A child restraint may be secured in the vehicle by using either the LATCH (Lower Anchors and Tethers for CHildren) system or with the vehicle seat belt. For additional information, refer to "Child restraints" in this section.

NISSAN recommends that all pre-teens and children be restrained in the rear seat if available (Crew Cab models). Studies show that children are safer when properly restrained in the rear seat than in the front seat.

This is especially important because your vehicle has a supplemental restraint system (Air bag system) for the front passenger. For additional information, refer to "Supplemental restraint system (SRS)" in this section.

INFANTS

Infants up to at least 1 year old should be placed in a rear-facing child restraint. NISSAN recommends that infants be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

Information Provided by:

SMALL CHILDREN

Children that are over 1 year old and weigh at least 20 lbs (9 kg) should remain in a rear-facing child restraint as long as possible up to the height or weight limit of the child restraint. Children who outgrow the height or weight limit of the rear-facing child restraint and are at least 1 year old should be secured in a forward-facing child restraint with a harness. Refer to the manufacturer's instructions for minimum and maximum weight and height recommendations. NISSAN recommends that small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

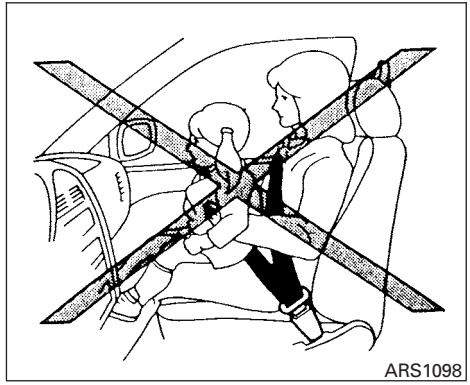
LARGER CHILDREN

Children should remain in a forward-facing child restraint with a harness until they reach the maximum height or weight limit allowed by the child restraint manufacturer.

Once a child outgrows the height or weight limit of the harness-equipped forward-facing child restraint, NISSAN recommends that the child be placed in a commercially available booster seat to obtain proper seat belt fit. For a seat belt to fit properly, the booster seat should raise the child so that the shoulder belt is properly positioned across the chest and the top, middle portion of the shoulder. The shoulder belt should not cross the neck or face and should not fall off the shoulder. The lap belt should lie snugly across the lower hips or upper thighs, not the abdomen. A booster seat can only be used in seating positions that have a three-point type seat belt. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. Once the child has grown so the shoulder belt is no longer on or near the face and neck and the lap belt can be positioned properly across the lower hips or upper thighs, use the seat belt without the booster seat.

⚠ WARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo area. The child could be seriously injured or killed in a sudden stop or collision.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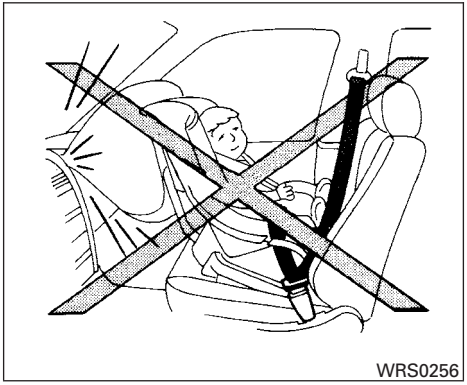
PRECAUTIONS ON CHILD RESTRAINTS

Information Provided by DEALER E-PROCESS


WRS0256

⚠WARNING

- **Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:**
  - **Do not install rear-facing child restraints in the driver's side rear seating position.**
  - **For forward-facing child seats and boosters, DO NOT install if the child restraint base extends past the forward edge of the seat cushion.**
  - **The child restraint must be used and installed properly. Always follow all of the child restraint manufacturer's instructions for installation and use.**
  - **Infants and children should never be held on anyone's lap. Even the strongest adult cannot resist the forces of a collision.**
  - **Do not put a seat belt around both a child and another passenger.**
  - **NISSAN recommends that all child restraints be installed in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat. If you must install a forward-facing child restraint in the front seat, refer to "Forward-facing child restraint installation using the seat belts" in this section.**
  - **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating air bag could seriously injure or kill a child. A rear-facing child restraint must only be used in the rear seat.**
  - **Be sure to purchase a child restraint that will fit the child and vehicle. Some child restraints may not fit properly in your vehicle.**
  - **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**
  - **Never use the anchor points for adult seat belts or harnesses.**

Information Provided by:
DEALER E-PROCESS

- **A child restraint with a top tether strap should not be used in the front passenger seat (King Cab models only).**
- **Keep seatbacks as upright as possible after fitting the child restraint.**
- **Infants and children should always be placed in an appropriate child restraint while in the vehicle.**

- **When the child restraint is not in use, keep it secured with the LATCH system or a seat belt. In a sudden stop or collision, loose objects can injure occupants or damage the vehicle.**

⚠CAUTION

A child restraint in a closed vehicle can become very hot. Check the seating surface and buckles before placing a child in the child restraint.

This vehicle is equipped with a universal child restraint anchor system, referred to as the LATCH (Lower Anchors and Tethers for CHildren) system. Some child restraints include rigid or webbing-mounted attachments that can be connected to these anchors. For additional information, refer to "LATCH (Lower Anchors and Tethers for CHildren) system" in this section.

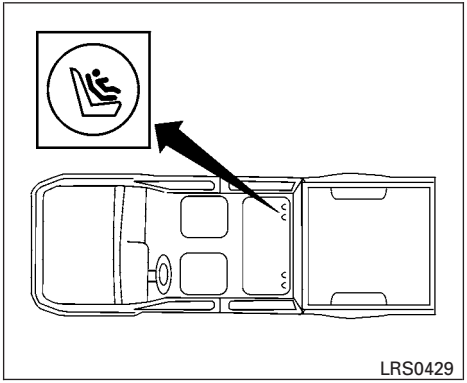
If you do not have a LATCH compatible child restraint, the vehicle seat belts can be used.

Several manufacturers offer child restraints for infants and children of various sizes. When selecting any child restraint, keep the following points in mind:

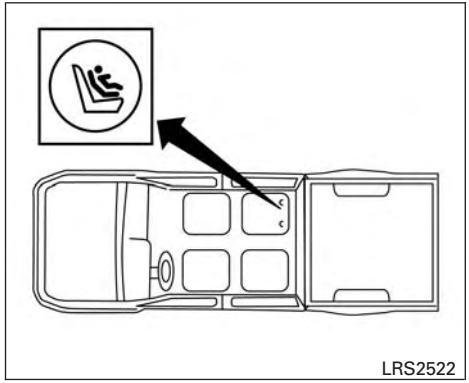
- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Choose a child restraint that is designed for your child's height and weight. Always follow all recommended procedures.
- If the combined weight of the child and child restraint is less than 65 lbs (29.5 kg), you may use either the LATCH anchors or the seat belt to install the child restraint (not both at the same time).
- If the combined weight of the child and child restraint is greater than 65 lbs (29.5 kg), use the vehicle's seat belt (not the lower anchors) to install the child restraint.
- Be sure to follow the child restraint manufacturer's instructions for installation.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated. Canadian law requires the top tether strap on forward-facing child restraints be secured to the designated anchor point on the vehicle.

Information Provided by DEALER E-PROCESS



LATCH system lower anchor locations (Crew Cab models)



LATCH system lower anchor locations (King Cab models)

LATCH (Lower Anchors and Tethers for CHildren) SYSTEM

Your vehicle is equipped with special anchor points that are used with LATCH system compatible child restraints. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint unless the combined weight of the child and child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and child restraint is greater than 65 lbs (29.5 kg) use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

The LATCH lower anchor points are provided to install child restraints in the rear outboard seating positions only. Do not attempt to install a child restraint in the center position using the LATCH lower anchors.

LATCH lower anchor

⚠ WARNING

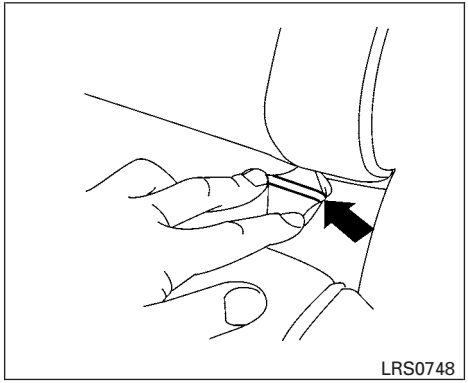
Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:

- **Attach LATCH system compatible child restraints only at the locations shown in the illustration.**
- **Do not secure a child restraint in the center rear seating position using the LATCH lower anchors. The child restraint will not be secured properly.**

Information Provided by:
DEALER E-PROCESS

– **Inspect the lower anchors by inserting your fingers into the lower anchor area. Feel to make sure there are no obstructions over the anchors such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the lower anchors are obstructed.**

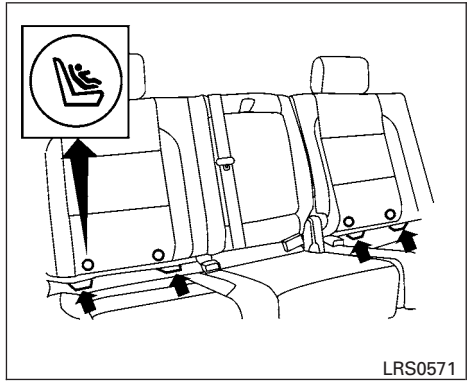
– **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**



LATCH lower anchor location

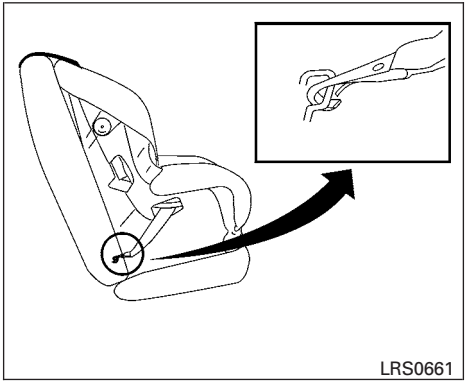
LATCH lower anchor location

The LATCH lower anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback (Crew Cab models only) to help you locate the LATCH lower anchors.

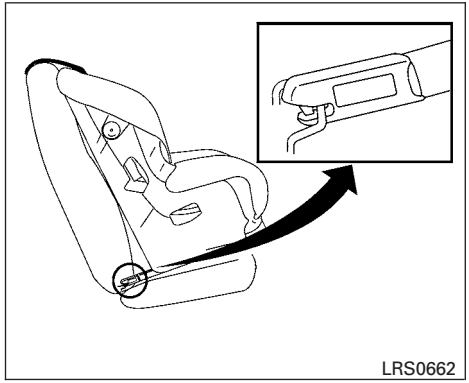


LATCH label locations (Crew Cab models only)

Information Provided by



LATCH webbing-mounted attachment



LATCH rigid-mounted attachment

Installing child restraint LATCH lower anchor attachments

LATCH compatible child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Check your child restraint for a label stating that it is compatible with LATCH. This information may also be in the instructions provided by the child restraint manufacturer.

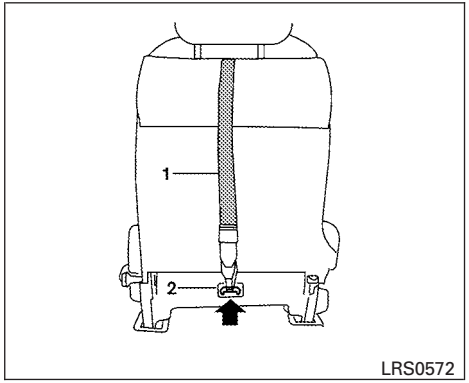
When installing a child restraint, carefully read and follow the instructions in this manual and those supplied with the child restraint.

Top tether anchor

⚠WARNING

- **Do not allow cargo to contact the top tether strap when it is attached to the top tether anchor. Properly secure the cargo so it does not contact the top tether strap. Cargo that is not properly secured or cargo that contacts the top tether strap may damage it during a collision. A child could be seriously injured or killed in a collision if the top tether strap is damaged.**
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorages, and a child could be seriously injured or killed in a collision.**

Information Provided by:
DEALER E-PROCESS



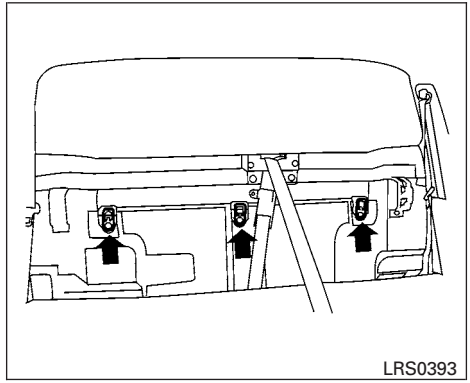
Front passenger seat (King Cab models only)

1. Top tether strap
2. Anchor point

Top tether anchor point locations

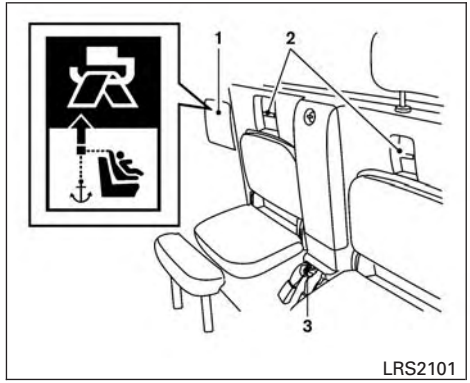
Anchor points are located in the following locations:

- On the back of the front passenger seat (King Cab only) as shown.



Rear bench seat (Crew Cab models only)

- Under the rear window behind the rear bench seat (Crew Cab only) as shown.



Jump seats (King Cab models - passenger side shown)

1. Cover plate
2. Routing bracket
3. Anchor point

- On the floor between the jump seat belt buckles in the center of the vehicle (King Cab only) as shown.

The anchor point is located on the floor between the jump seat belt buckles in the center of the vehicle. The routing bracket is located behind the cover plate under the rear window above the jump seat.

Information Provided by DEALER E-PROCESS

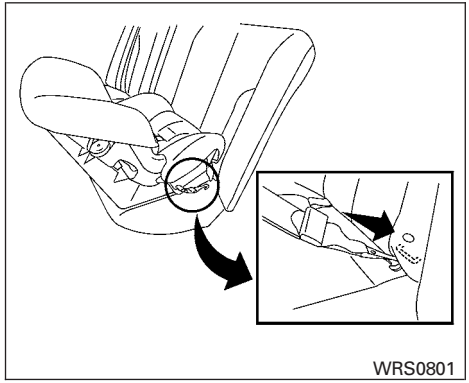
REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH (Crew Cab models only)

For additional information, refer to all Warnings and Cautions in the “Child Safety” and “Child Restraint” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

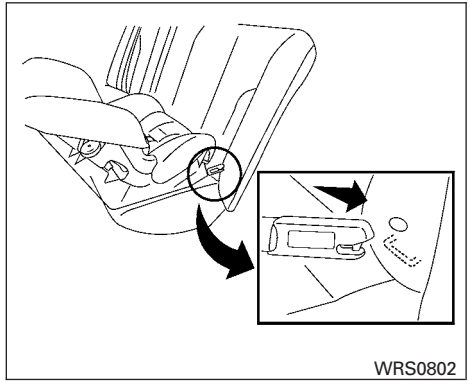
Follow these steps to install a rear-facing child restraint in the rear seats using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.



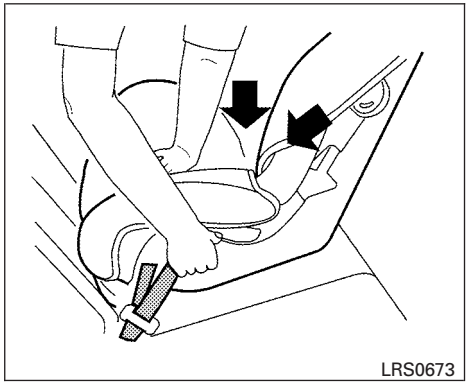
Rear-facing webbing-mounted – step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.



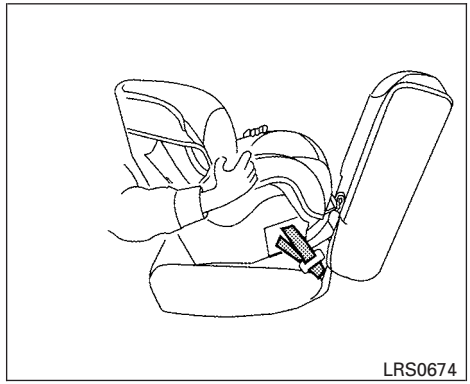
Rear-facing rigid-mounted – step 2

Information Provided by:
DEALER E-PROCESS



Rear-facing – step 3

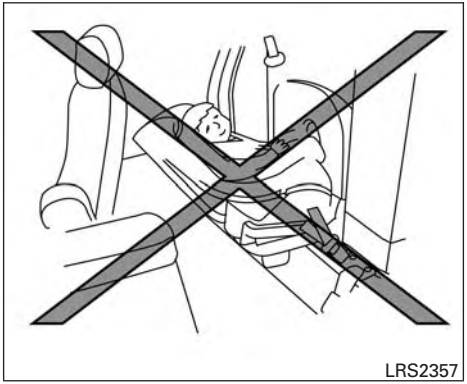
3. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.



Rear-facing – step 4

4. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint or try installing by using the vehicle seat belt (if applicable). Not all child restraints fit in all types of vehicles.
5. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 2 through 4.

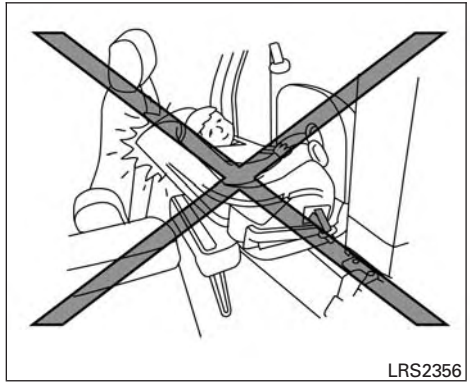
Information Provided by:


LRS2357

REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH — JUMP SEAT

⚠ WARNING

- **If a child restraint system is not installed properly, the child could be seriously injured or killed in a sudden stop or collision.**
  - **Never install a rear-facing child restraint system on the driver's side jump seat.**
  - **Do not install a child restraint system on the passenger's side jump seat without unfolding the seat extender.**

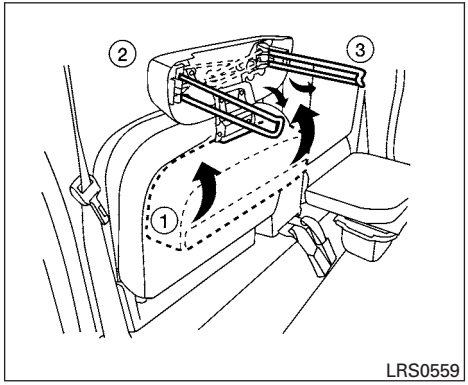

LRS2356

⚠ WARNING

- **To install a rear-facing child restraint on the passenger's side jump seat, it will be necessary to move the front passenger's seat fully forward and place the front seatback upright or tilt it forward. Failure to do so may cause the child restraint to not be installed properly and cause serious injury or death in a sudden stop or collision.**

Information Provided by: DEALER E-PROCESS

– **The front seat cannot be used when a rear-facing child restraint is installed on the jump seat. Attempting to do so could cause serious injury in a sudden stop or collision.**



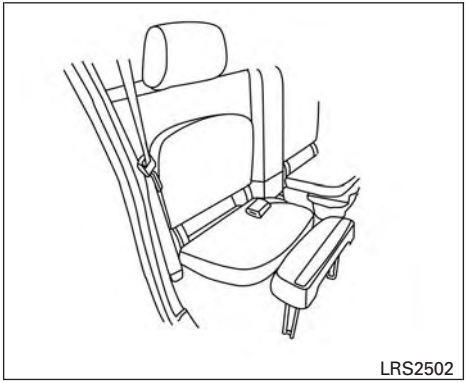
For additional information, refer to all Warnings and Cautions in the “Child Safety” and “Child Restraint” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

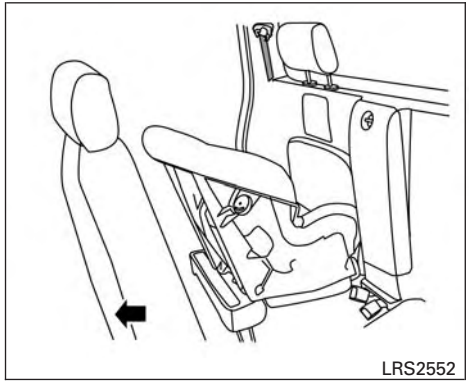
Follow these steps to install a child restraint on the jump seat.

1. To access the jump seat extension (passenger’s side only) ① on the jump seat, pull up ② on the extension to unfold it to the open position. Then unfold the two support legs ③ and lower the jump seat to the full open seating position.

Information Provided by

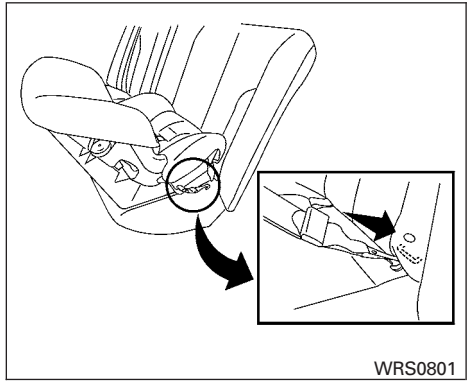


Full open seating position



Rear-facing — step 2

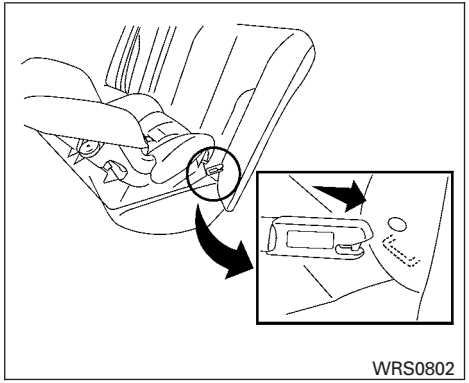
2. Move the front passenger's seat into the full forward position. Then move the front seatback to the upright or tilted forward position. Position the child restraint on the jump seat. The direction of the child restraint depends on the type of the child restraint and the size of the child. Always follow the restraint manufacturer's instructions.
3. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.



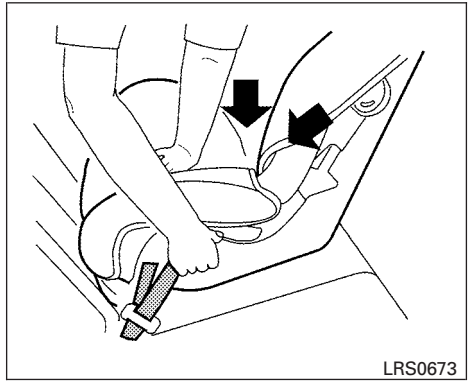
Rear-facing webbing-mounted – step 4

4. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

Information Provided by:
DEALER E-PROCESS

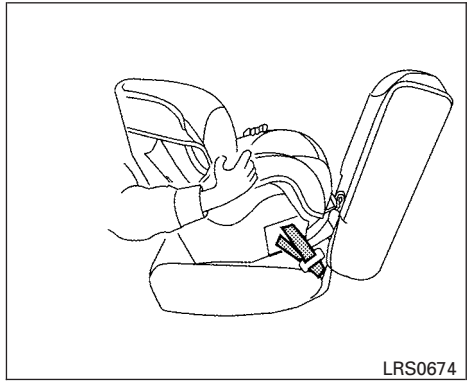


Rear-facing rigid-mounted – step 4



Rear-facing – step 5

5. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.

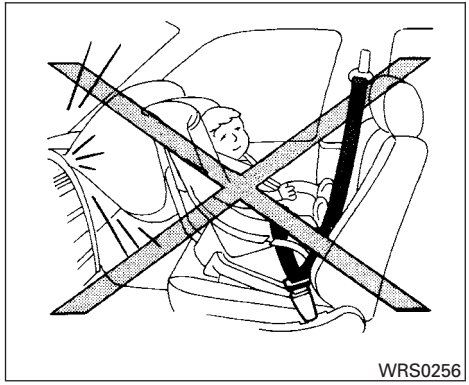


Rear-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint or try installing by using the vehicle seat belt (if applicable). Not all child restraints fit in all types of vehicles.

Information Provided by

7. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 6.

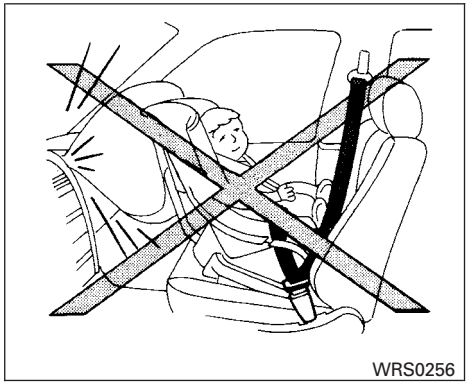


REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS (Crew Cab models only)

⚠ WARNING

The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. For additional information, refer to "Front passenger air bag and status light" in this section.

Information Provided by:
DEALER E-PROCESS



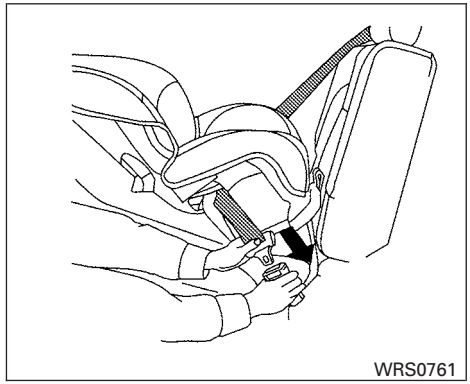
Rear-facing – step 1

For additional information, refer to all Warnings and Cautions in the “Child Safety” and “Child Restraint” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

Follow these steps to install a rear-facing child restraint using the vehicle seat belts in the rear seats:

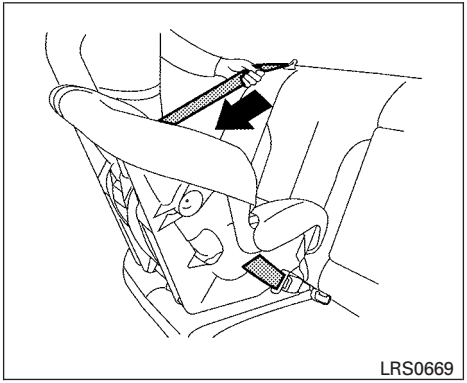
1. **Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.** Position the child restraint on the seat. Always follow the restraint manufacturer’s instructions.



Rear-facing – step 2

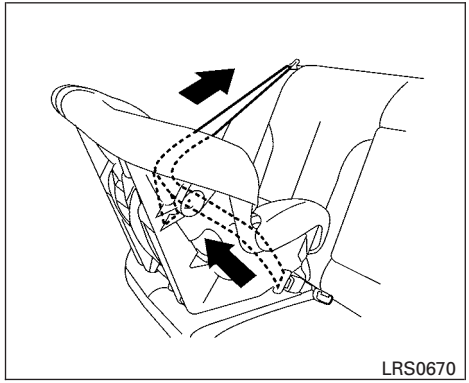
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer’s instructions for belt routing.

Information Provided by



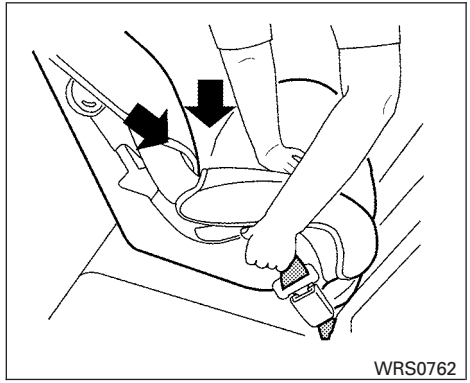
Rear-facing – step 3

3. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the ALR mode (child restraint mode). It reverts to the ELR mode when the seat belt is fully retracted.



Rear-facing – step 4

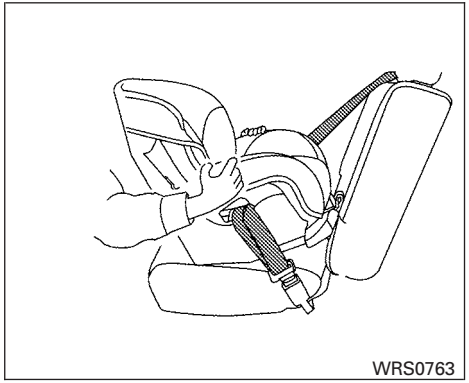
4. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Rear-facing – step 5

5. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint to compress the vehicle seat cushion and seatback while pulling up on the seat belt.

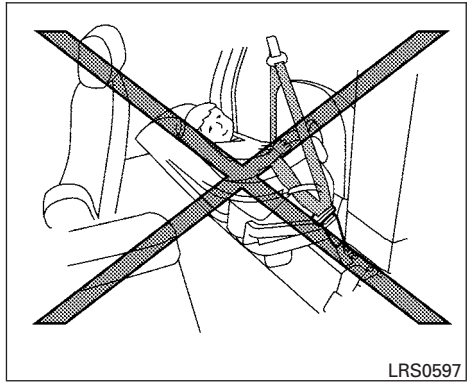
Information Provided by:
DEALER E-PROCESS



Rear-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 3 through 6.

After the child restraint is removed and the seat belt fully retracted, the ALR mode (child restraint mode) is canceled.

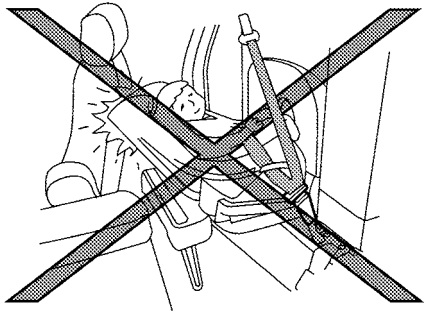


REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS — JUMP SEAT (King Cab models only)

Information Provided by

⚠WARNING

- **The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. For additional information, refer to "Front passenger air bag and status light" in this section.**
- **A child restraint system will not be installed properly and the child could be seriously injured or killed in a sudden stop or collision.**
  - **– Never install a rear-facing child restraint system on the driver's side jump seat.**
  - **– Do not install a child restraint system on the passenger's side jump seat without unfolding the seat extender.**

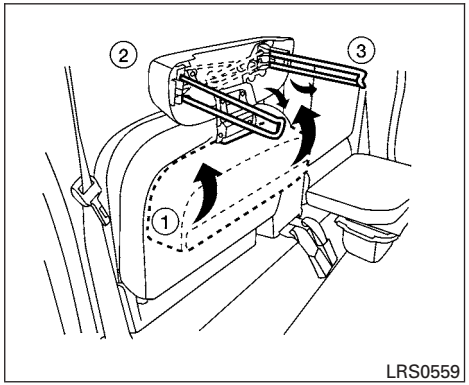


LRS0549

⚠WARNING

- **To install a rear-facing child restraint on the passenger's side jump seat, it will be necessary to move the front passenger's seat fully forward and place the front seatback upright or tilt it forward. Failure to do so may cause the child restraint to not be installed properly and cause serious injury or death in a sudden stop or collision.**
  - **– The front seat cannot be used when a rear-facing child restraint is installed on the jump seat. Attempting to do so could cause serious injury in a sudden stop or collision.**

Information Provided by:
DEALER E-PROCESS

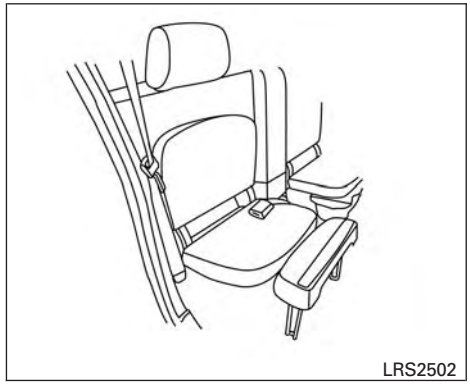


For additional information, refer to all Warnings and Cautions in the “Child Safety” and “Child Restraint” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

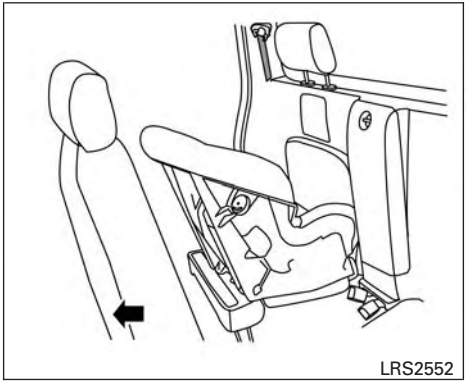
Follow these steps to install a child restraint on the passenger’s side jump seat.

1. To access the jump seat extension ① on the passenger’s side jump seat, pull up ② on the extension to unfold it to the open position. Then unfold the two support legs ③ and lower the jump seat to the full open seating position.



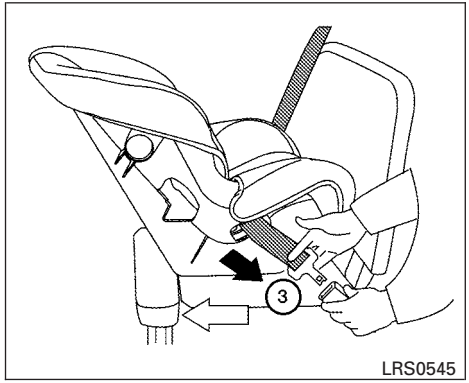
Full open seating position

Information Provided by



Rear-facing — step 2

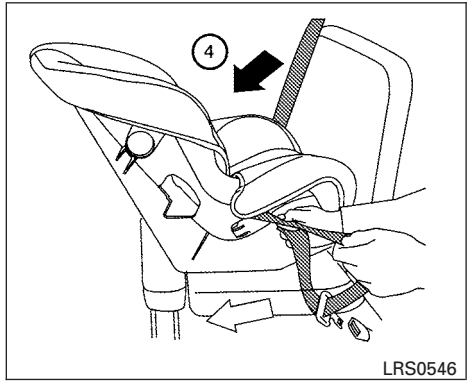
2. Move the front passenger's seat into the full forward position. Then move the front seatback to the upright or tilted forward position. Position the child restraint on the jump seat. The direction of the child restraint depends on the type of the child restraint and the size of the child. Always follow the restraint manufacturer's instructions.



Rear-facing — step 3

③ Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage.

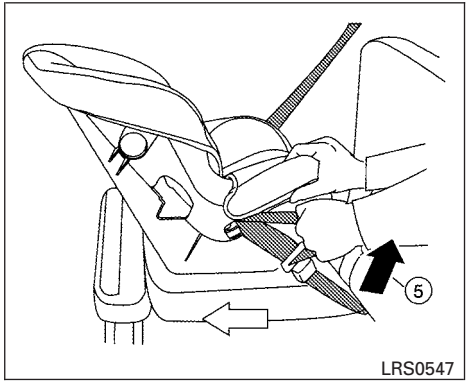
Be sure to follow the child restraint manufacturer's instructions for belt routing.



Rear-facing — step 4

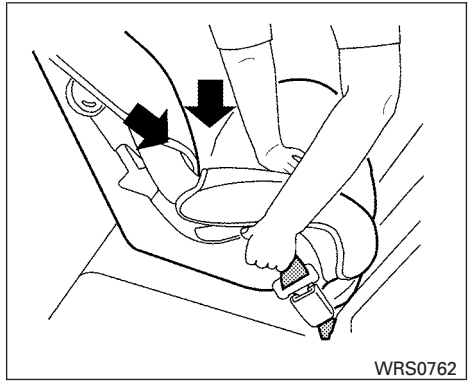
④ Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the ALR mode (child restraint mode). It reverts to the ELR mode when the seat belt is fully retracted.

Information Provided by:
DEALER E-PROCESS



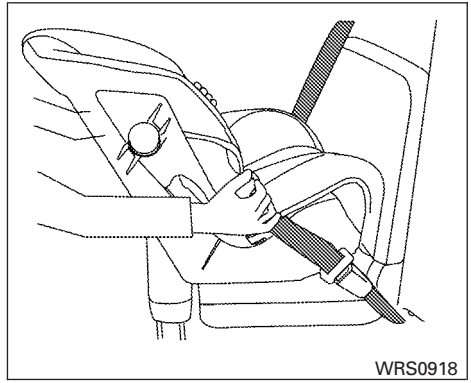
Rear-facing — step 5

⑤ Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Rear-facing – step 6

6. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



Rear-facing — step 7

7. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the seat near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the seat belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

Information Provided by

8. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 3 through 7.

After the child restraint is removed and the seat belt fully retracted, the ALR mode (child restraint mode) is canceled.

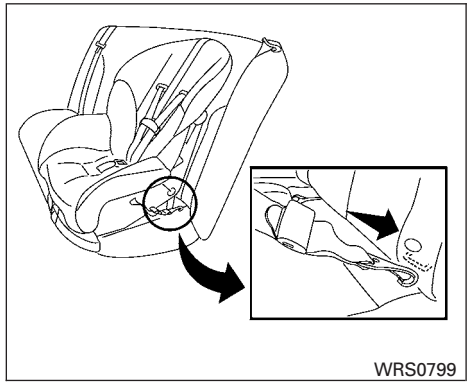
FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH (Crew Cab model only)

For additional information, refer to all Warnings and Cautions in the “Child Safety” and “Child Restraint” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

Follow these steps to install a forward-facing child restraint in the rear seats using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

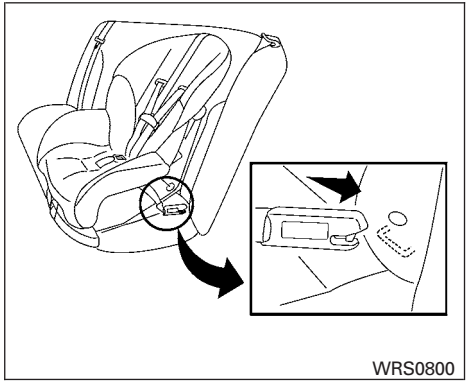


Forward-facing webbing-mounted – step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. For additional information, refer to “Installing top tether strap” in this section. Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.

Information Provided by:
DEALER E-PROCESS

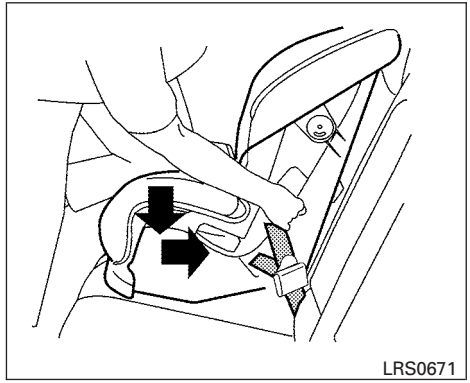


Forward-facing rigid-mounted – step 2

3. The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information, refer to “Head restraints/headrests” in this section for head restraint/headrest adjustment information.

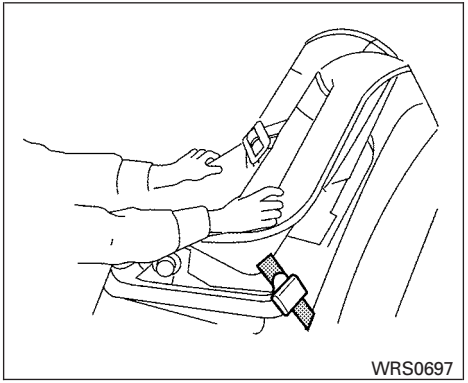
If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing – step 4

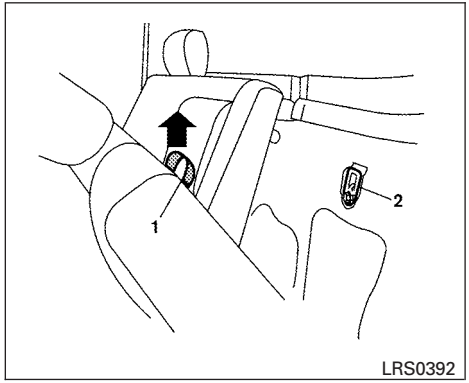
4. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.
5. Tighten the tether strap according to the manufacturer’s instructions to remove any slack.

Information Provided by



Forward-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 6.



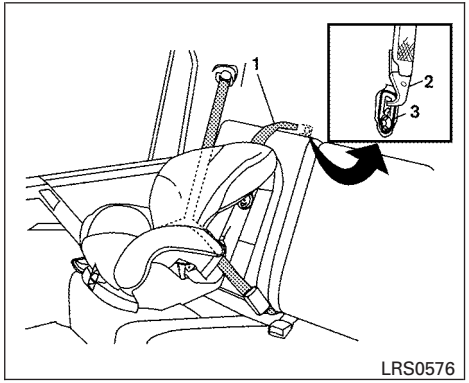
Anchor point access

1. Pull strap
2. Anchor points

Installing top tether strap (rear bench seat – Crew Cab models only)

To access the anchor points behind the rear bench seat, tilt the rear seatback forward by lifting up on the pull strap behind the seatback.

Information Provided by:
DEALER E-PROCESS



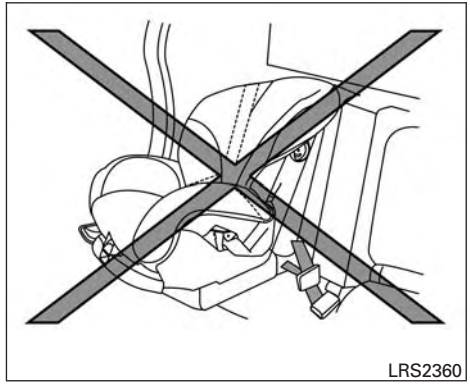
Rear bench seat (Crew Cab models only)

1. Top tether strap
2. Tether strap
3. Tether anchor point

Before securing the child restraint with the LATCH lower anchors (rear outboard seating positions only (Crew Cab models only) follow these steps.

1. If necessary, raise or remove the head restraint/headrest to position the top tether strap over the top of the seatback. If the head restraint/headrest is removed, store it in a secure place. Be sure to reinstall the head restraint/headrest when the child restraint is removed. **For additional information, refer to "Head restraints/headrests" in this section for head restraint/headrest adjustment, removal and installation information.**
2. Position the top tether strap over the top of the seatback and under the head restraint/headrest.
3. Secure the tether strap to the tether anchor point on the seat directly behind the child restraint.
4. Return the seatback to the locked position.
5. Refer back to child restraint installation steps before tightening the tether strap.

If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.



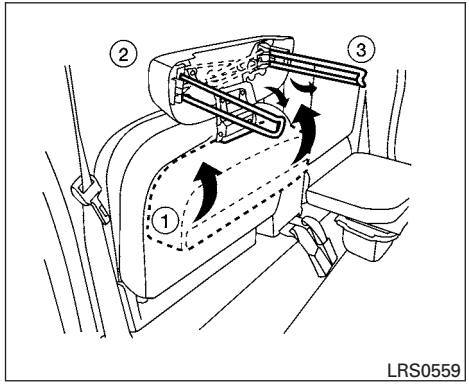
FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH — JUMP SEAT (King Cab models only)

⚠ WARNING

- **If a child restraint system is not installed properly, the child could be seriously injured or killed in a sudden stop or collision.**
  - **Do not install a child restraint system on the passenger's side jump seat without unfolding the seat extender.**

Information Provided by

– **For forward-facing child seats and boosters, DO NOT install if the child restraint base extends past the forward edge of the driver's side seat cushion.**



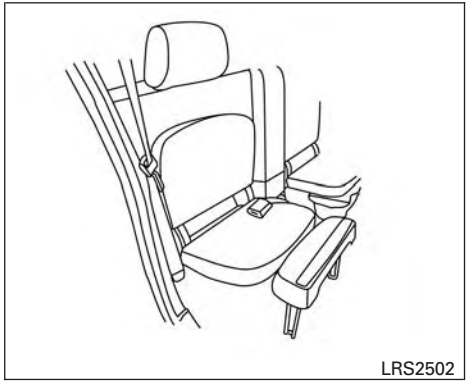
For additional information, refer to all Warnings and Cautions in the "Child Safety" and "Child Restraint" sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

Follow these steps to install a child restraint on the jump seat.

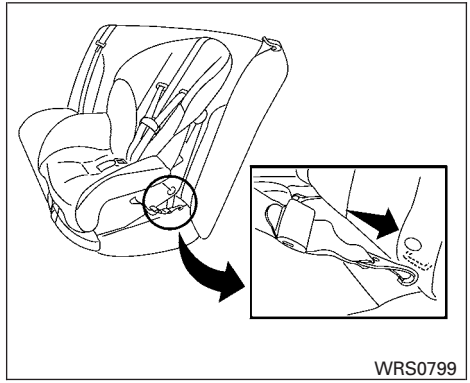
1. To access the jump seat extension (passenger's side only) ① on the jump seat, pull up ② on the extension to unfold it to the open position. Then unfold the two support legs ③ and lower the jump seat to the full open seating position.

Information Provided by:



Full open seating position

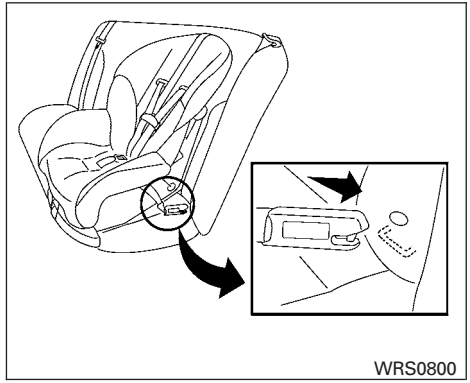
2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.



Forward-facing webbing-mounted – step 3

3. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. For additional information, refer to "Installing top tether strap" in this section. Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.



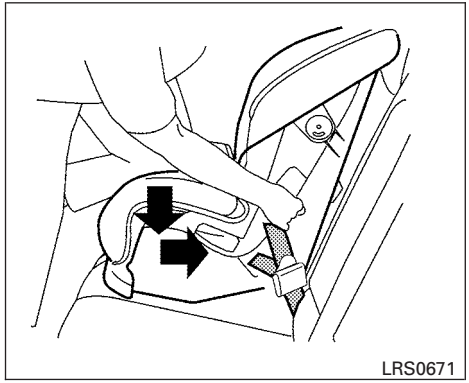
Forward-facing rigid-mounted – step 3

4. The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information, refer to "Head restraints/headrests" in this section for head restraint/headrest adjustment information.

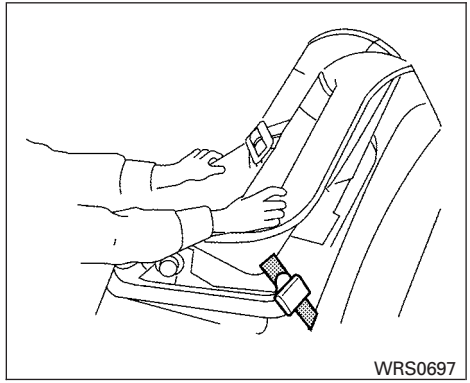
Information Provided by

If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing – step 5

5. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.
6. Tighten the tether strap according to the manufacturer's instructions to remove any slack.

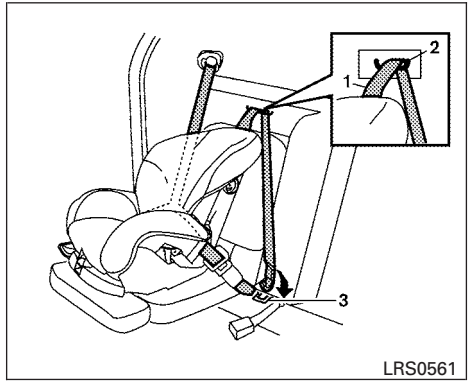


Forward-facing – step 7

7. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

Information Provided by:
DEALER E-PROCESS

8. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 7.



Jump seat (King Cab models only)

1. Top tether strap
2. Routing bracket
3. Tether anchor point

Installing top tether strap (jump seat – King Cab models only)

⚠ WARNING

- **Do not secure the top tether strap to the routing bracket. If the child restraint is not anchored properly, the risk of a child being injured or killed in a collision or a sudden stop greatly increases.**
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorages, and a child could be seriously injured or killed in a collision.**

First, secure the child restraint with the LATCH lower anchors.

1. Pull the cover plate off to access the top tether strap routing bracket for the jump seat.
2. Route the top tether strap through the routing bracket.
3. Secure the top tether strap to the tether anchor point located between the seat belt buckles in the center of the vehicle.
4. Refer back to child restraint installation steps before tightening the tether strap.

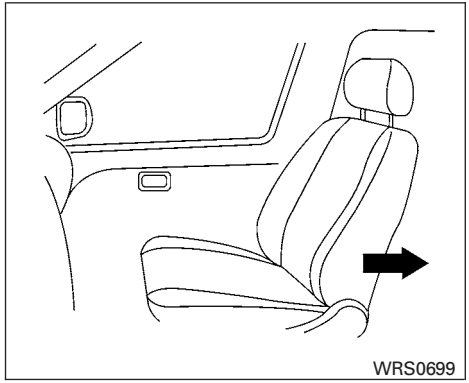
If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.

Information Provided by:
DEALER E-PROCESS

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS — FRONT PASSENGER AND REAR BENCH SEAT (Crew Cab models only)

⚠ WARNING

The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. For additional information, refer to "Front passenger air bag and status light" in this section.



Forward-facing (front passenger seat) – step 1

For additional information, refer to all Warnings and Cautions in the "Child Safety" and "Child Restraint" sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle's seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer's instructions for installation.

Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the rear seats (Crew Cab models only) or in the front passenger seat:

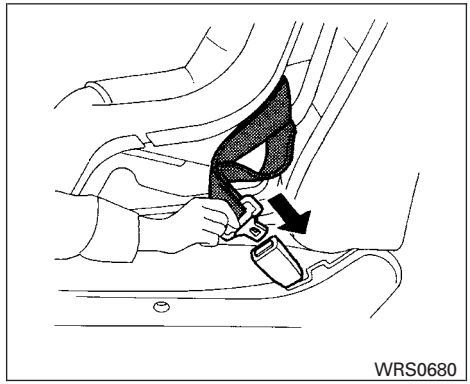
1. **If you must install a child restraint in the front seat, it should be placed in a forward-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.**
2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

   The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information, refer to "Head restraints/headrests" in this section for head restraint/headrest adjustment, removal and installation information.

Information Provided by: DEALER E-PROCESS

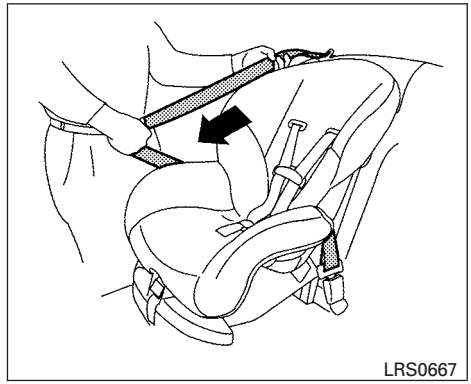
If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing – step 3

3. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

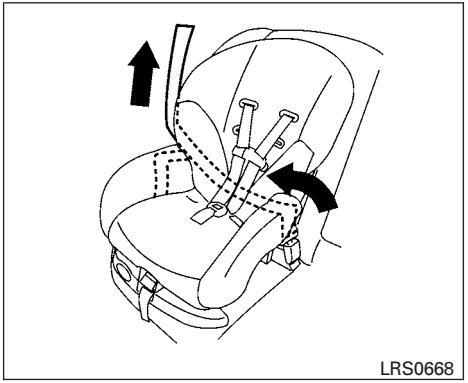
   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point (rear seat installation only). For additional information, refer to "Installing top tether strap" in this section. Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.



Forward-facing – step 4

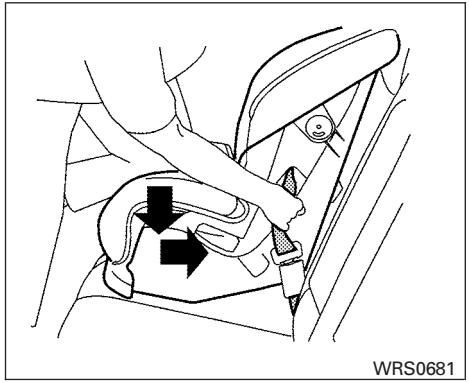
4. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the ALR mode (child restraint mode). It reverts to ELR mode when the seat belt is fully retracted.

Information Provided by



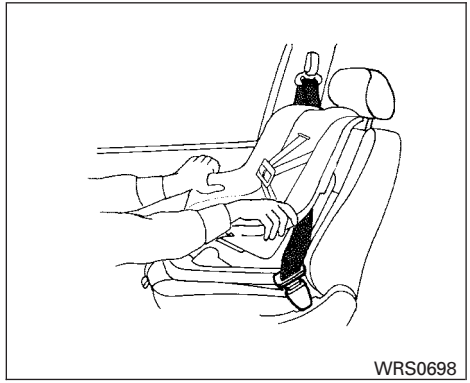
Forward-facing – step 5

5. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Forward-facing – step 6

6. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
7. Tighten the tether strap according to the manufacturer's instructions to remove any slack.



Forward-facing – step 8

8. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the seat belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

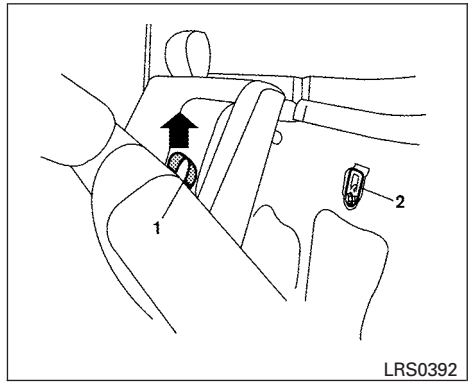
Information Provided by:
DEALER E-PROCESS

9. Check to make sure the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 3 through 8.

Forward-facing – step 10

10. If the child restraint is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light should illuminate. If this light is not illuminated, refer to "Front passenger air bag and status light" in this section. **Move the child restraint to another seating position.** Have the system checked by a NISSAN dealer.

After the child restraint is removed and the seat belt is fully retracted, the ALR mode (child restraint mode) is canceled.



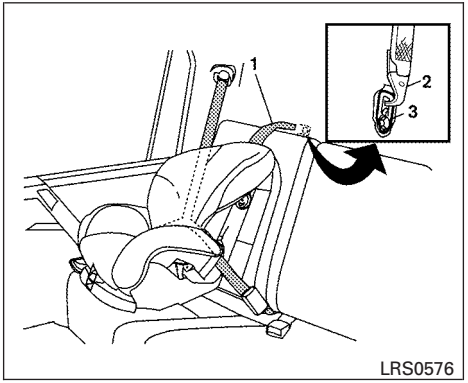
Anchor point access

1. Pull strap
2. Anchor points

Installing top tether strap (rear bench seat – Crew Cab models only)

To access the anchor points behind the rear bench seat, tilt the rear seatback forward by lifting up on the pull strap behind the seatback.

Information Provided by



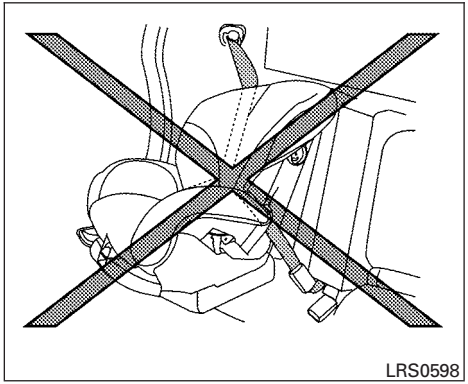
Rear bench seat (Crew Cab models only)

1. Top tether strap
2. Tether strap
3. Tether anchor point

Before securing the child restraint with the seat belt, follow these steps.

1. If necessary, raise or remove the head restraint/headrest to position the top tether strap over the top of the seatback. If the head restraint/headrest is removed, store it in a secure place. Be sure to reinstall the head restraint/headrest when the child restraint is removed. **For additional information, refer to "Head restraints/headrests" in this section for head restraint/headrest adjustment, removal and installation information.**
2. Position the top tether strap over the top of the seatback and under the head restraint/headrest.
3. Secure the tether strap to the tether anchor point on the seat directly behind the child restraint.
4. Return the seatback to the locked position.
5. Refer back to child restraint installation steps before tightening the tether strap.

If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.

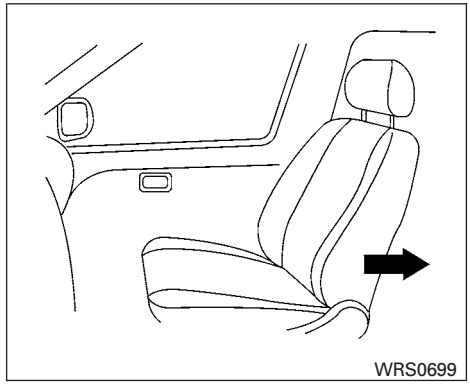


FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS — FRONT PASSENGER AND JUMP SEATS (King Cab models only)

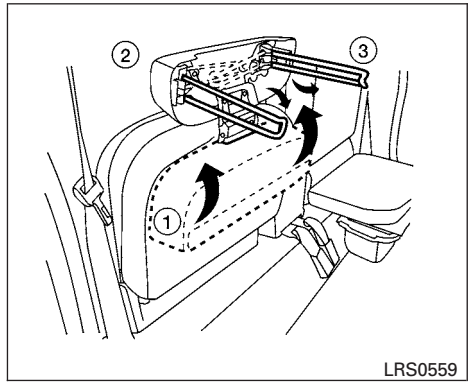
Information Provided by:
DEALER E-PROCESS

⚠WARNING

- **The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. For additional information, refer to "Front passenger air bag and status light" in this section.**
- **If a child restraint system is not installed properly, the child could be seriously injured or killed in a sudden stop or collision.**
  - **Do not install a child restraint system on the passenger's side jump seat without unfolding the seat extender.**
  - **For forward-facing child seats and boosters, DO NOT install if the child restraint system base extends past the forward edge of the driver's side seat cushion.**

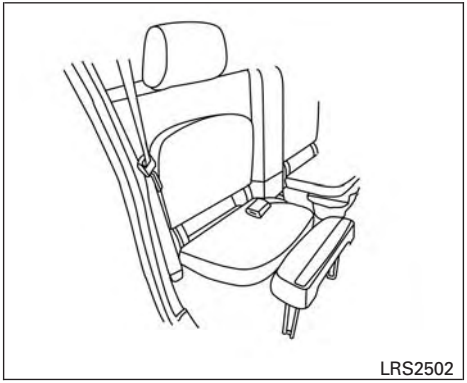


Forward-facing (front passenger seat) — step 1



Forward-facing (jump seat- King Cab) — step 2

Information Provided by



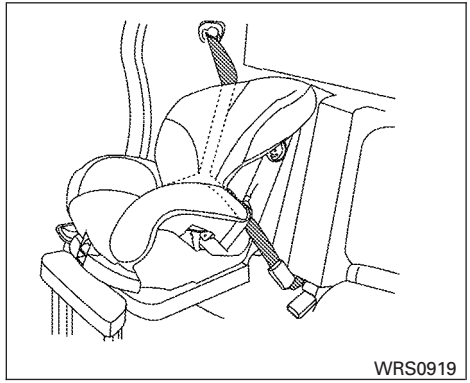
Full open seating position

For additional information, refer to all Warnings and Cautions in the “Child Safety” and “Child Restraint” sections of this manual before installing a child restraint.

Do not use the lower anchors if the combined weight of the child and the child restraint exceeds 65 lbs (29.5 kg). If the combined weight of the child and the child restraint is greater than 65 lbs, (29.5 kg) use the vehicle’s seat belt (not the lower anchors) to install the child restraint. Be sure to follow the child restraint manufacturer’s instructions for installation.

Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the passenger’s side jump seat (King Cab models only) or in the front passenger seat:

1. **If you must install a child restraint in the front seat, it should be placed in a forward-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.**
2. To access the jump seat extension (passenger’s side only) ① on the jump seat, pull up ② on the extension to unfold it to the open position. Then unfold the two support legs ③ and lower the jump seat to the full open seating position.



Forward-facing — step 3

3. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

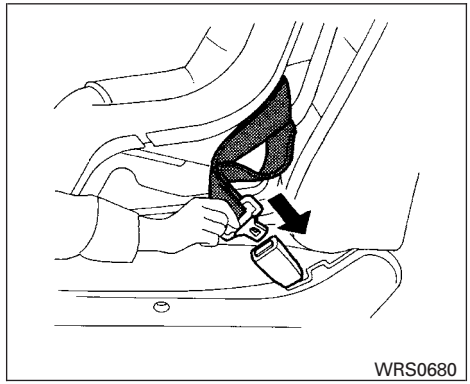
   The back of the child restraint should be secured against the vehicle seat back.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct child restraint fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the child restraint is removed.** For additional information, refer to “Head restraints/headrests” in this section for head

Information Provided by:
DEALER E-PROCESS

restraint/headrest adjustment, removal and installation information.

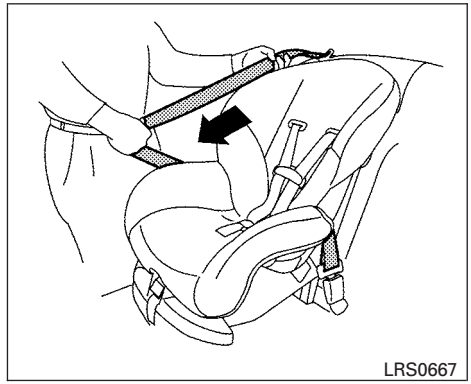
If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing — step 4

4. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

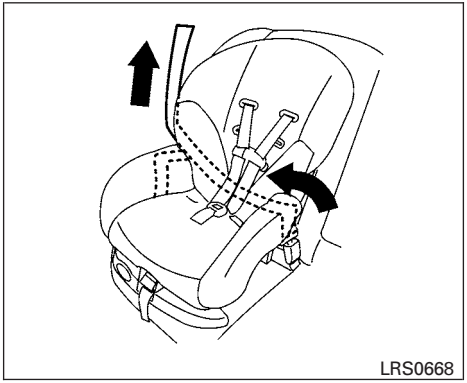
   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. For additional information, refer to "Installing top tether strap" in this section. Do not install child restraints that require the use of a top tether strap to seating positions that do not have a top tether anchor.



Forward-facing — step 5

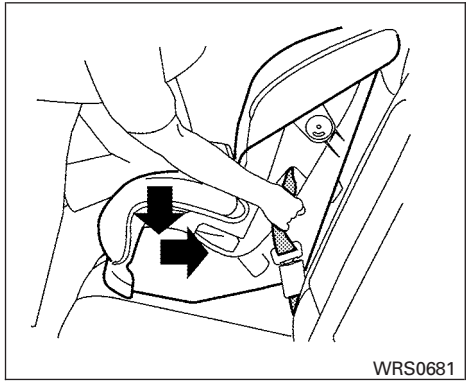
5. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the ALR mode (child restraint mode). It reverts to the ELR mode when the seat belt is fully retracted.

Information Provided by



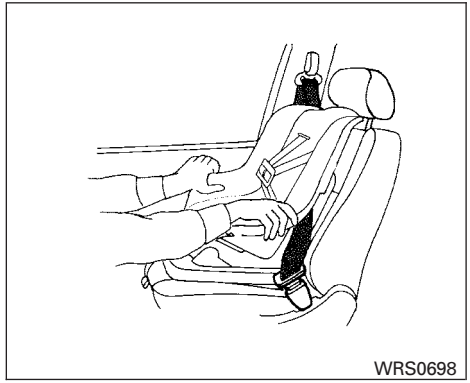
Forward-facing — step 6

6. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Forward-facing – step 7

7. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
8. Tighten the tether strap according to the manufacturer's instructions to remove any slack.



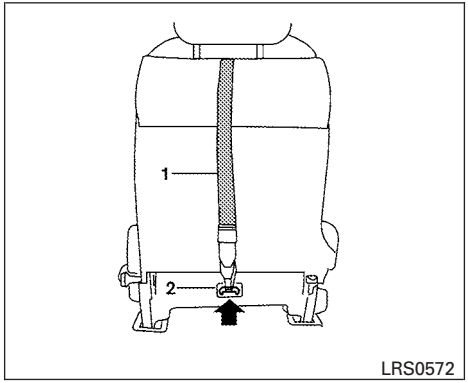
Forward-facing — step 9

9. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the seat near the seat belt path. The child restraint should not move more than 1 inch (25 mm) from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

Information Provided by:
DEALER E-PROCESS

10. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 3 through 9.

After the child restraint is removed and the seat belt is fully retracted, the ALR mode (child restraint mode) is canceled.



Front passenger seat (King Cab models only)

1. Top tether strap
2. Anchor point

Installing top tether strap (front passenger seat – King Cab models only)

⚠ WARNING

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorages, and a child could be seriously injured or killed in a collision.

The child restraint top tether strap must be used when installing the child restraint with the seat belts.

Before securing the child restraint with the seat belt,

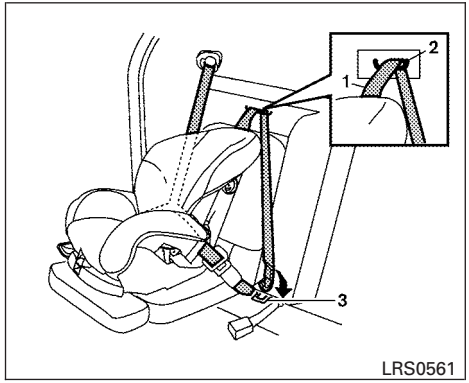
1. If necessary, raise or remove the head restraint/headrest to position the top tether straps over the top of the seatback. If the head restraint/headrest is removed, store it in a secure place. Be sure to reinstall the head restraint/headrest when the child restraint is removed. For additional informa-

Information Provided by

tion, refer to “Head restraints/headrests” in this section for head restraint/headrest adjustment, removal and installation information.

2. Position the top tether strap over the seatback.
3. Secure the tether strap to the tether anchor point on the bottom of the seatback behind the child restraint.
4. Tighten the tether strap according to the manufacturer’s instructions to remove any slack. If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.

If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.



Jump seat (King Cab models only)

1. Top tether strap
2. Routing bracket
3. Tether anchor point

Installing top tether strap (jump seat – King Cab models only)

⚠ WARNING

- **Do not secure the top tether strap to the routing bracket. If the child restraint is not anchored properly, the risk of a child being injured or killed in a collision or a sudden stop greatly increases.**
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used to attach adult seat belts or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorages, and a child could be seriously injured or killed in a collision.**

First, secure the child restraint with the seat belt.

1. Pull the cover plate off to access the top tether strap routing bracket for the jump seat.
2. Route the top tether strap through the routing bracket.
3. Secure the top tether strap to the tether anchor point located between the seat belt buckles in the center of the vehicle.
4. Refer back to child restraint installation steps before tightening the tether strap.

If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.

Information Provided by:

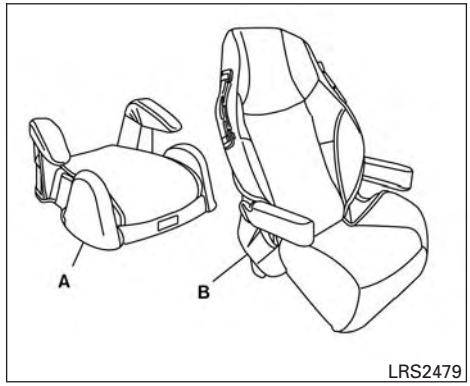
BOOSTER SEATS

Precautions on booster seats

⚠ WARNING

If a booster seat and seat belt are not used properly, the risk of a child being injured in a sudden stop or collision greatly increases:

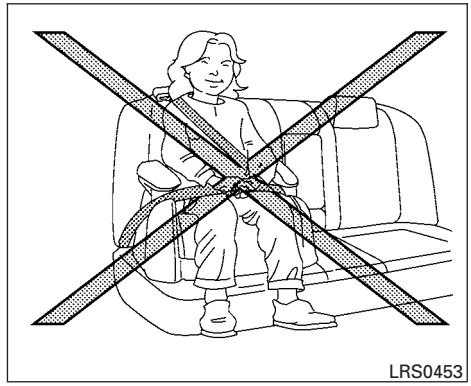
- **Make sure the shoulder portion of the belt is away from the child's face and neck and the lap portion of the belt does not cross the stomach.**
- **Make sure the shoulder belt is not behind the child or under the child's arm.**
- **A booster seat must only be installed in a seating position that has a lap/shoulder belt.**



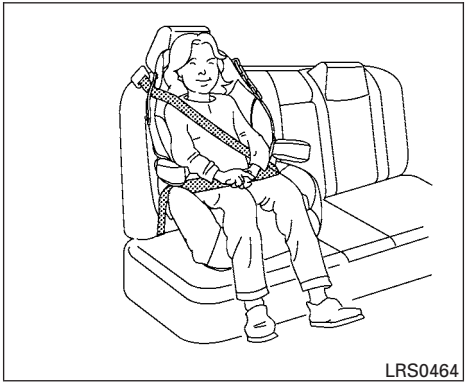
LRS2479

A. Low back booster seat

B. High back booster seat


LRS0453

Information Provided by DEALER E-PROCESS


LRS0464

Booster seats of various sizes are offered by several manufacturers. When selecting any booster seat, keep the following points in mind:

- Choose only a booster seat with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the booster seat in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- Make sure the child's head will be properly supported by the booster seat or vehicle seat. The seatback must be at or above the center of the child's ears. For example, if a low back booster seat is chosen, the vehicle seatback must be at or above the center of the child's ears. If the seatback is lower than the center of the child's ears, a high back booster seat should be used.
- If the booster seat is compatible with your vehicle, place the child in the booster seat and check the various adjustments to be sure the booster seat is compatible with the child. Always follow all recommended procedures.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

The instructions in this section apply to booster seat installation in the rear seats or the front passenger seat.

Booster seat installation on front passenger seat and rear seat (Crew Cab models only)

⚠ CAUTION

Do not use the lap/shoulder belt in the Automatic Locking Retractor mode when using a booster seat with the seat belts.

For additional information, refer to all Warnings and Cautions in the "Child Safety", "Child Restraint" and "Booster Seats" sections of this manual before installing a child restraint.

Follow these steps to install a booster seat in the rear seat or in the front passenger seat:

Information Provided by:
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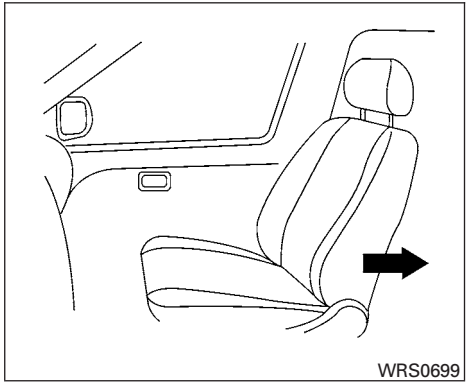


1. **If you must install a booster seat in the front seat, move the seat to the rearmost position.**
2. Position the booster seat on the seat. Only place it in a front-facing direction. Always follow the booster seat manufacturer's instructions.

Front passenger position

3. The booster seat should be positioned on the vehicle seat so that it is stable.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct booster seat fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the booster seat is removed.** For additional information, refer to "Head restraints/headrests" in this section for head restraint/headrest adjustment, removal and installation information.

   If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.
4. Position the lap portion of the seat belt low and snug on the child's hips. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
5. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child's shoulder. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in "Three-point type seat belt with retractor" in this section.

Information Provided by

WRS0475

7. If the booster seat is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light may or may not illuminate, depending on the size of the child and the type of booster seat being used. For additional information, refer to “Front passenger air bag and status light” in this section.

Booster seat installation — jump seats (King Cab models only)

⚠ WARNING

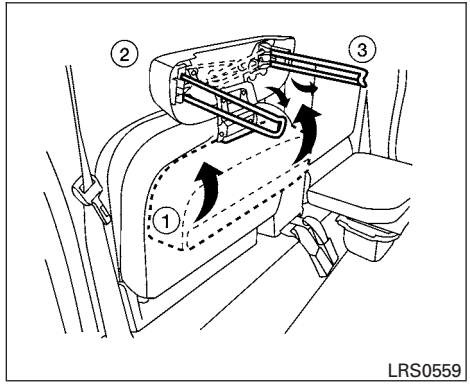
- **If a child restraint system is not installed properly, the child could be seriously injured or killed in a sudden stop or collision.**
  - **For boosters, DO NOT install if the child restraint system base extends past the forward edge of the seat cushion.**
  - **Do not install a child restraint system on the passenger’s side jump seat without unfolding the seat extender.**

⚠ CAUTION

Do not use the lap/shoulder belt in the Automatic Locking Retractor (ALR) mode when using a booster seat with the seat belts.

For additional information, refer to all Warnings and Cautions in the “Child Safety”, “Child Restraint” and “Booster Seats” sections of this manual before installing a child restraint.

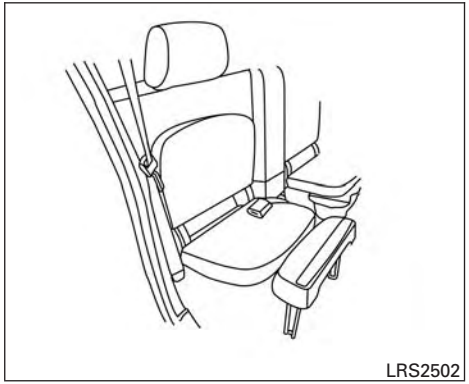
Follow these steps to install a booster seat in the jump seats:



LRS0559

1. To access the jump seat extension (passenger’s side only) ① on the jump seat, pull up ② on the extension to unfold it to the open position. Then unfold the two support legs ③ and lower the jump seat to the full open seating position.

Information Provided by:
DEALER E-PROCESS


LRS2502

LRS0539

2. Position the booster seat on the seat. Only place it in a front-facing direction. Always follow the booster seat manufacturer's instructions.
3. The booster seat should be positioned on the vehicle seat so that it is stable.

   If necessary, adjust or remove the head restraint/headrest to obtain the correct booster seat fit. If the head restraint/headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint/headrest when the booster seat is removed.** For additional information, refer to "head restraint/headrest" in this section for head restraint/headrest adjustment, removal and installation information.

   If the seating position does not have an adjustable head restraint/headrest and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.
4. Position the lap portion of the seat belt low and snug on the child's hips. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
5. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child's shoulder. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in "Three-point type seat belt with retractor" in this section.

Information Provided by

PRECAUTIONS ON SRS

This SRS section contains important information concerning the following systems:

- Driver and passenger supplemental front-impact air bag (NISSAN Advanced Air Bag System)
- Front seat-mounted side-impact supplemental air bag
- Roof-mounted curtain side-impact and rollover supplemental air bag
- Seat belt with pretensioner

Supplemental front-impact air bag system

The NISSAN Advanced Air Bag System can help cushion the impact force to the head and chest of the driver and front passenger in certain frontal collisions.

Front seat-mounted side-impact supplemental air bag system

This system can help cushion the impact force to the chest area of the driver and front passenger in certain side-impact collisions. The side air bags are designed to inflate on the side where the vehicle is impacted.

Roof-mounted curtain side-impact and rollover supplemental air bag system

This system can help cushion the impact force to the head of occupants in front and rear outboard seating positions in certain side-impact or rollover collisions. In a side-impact, the curtain air bags are designed to inflate on the side where the vehicle is impacted. In a rollover, the curtain air bags are designed to inflate and remain inflated for a short time.

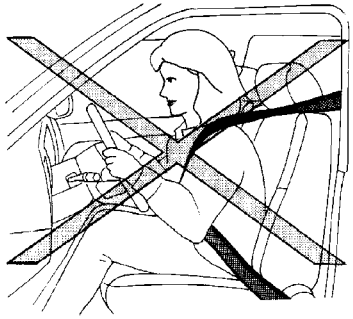
The SRS is designed to **supplement** the crash protection provided by the seat belts and is **not a substitute** for them. Seat belts should always be correctly worn and the occupant seated a suitable distance away from the steering wheel, instrument panel and door finishers. For additional information, refer to “Seat belts” in this section for instructions and precautions on seat belt usage.

The supplemental air bags operate only when the ignition switch is in the ON or START position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

Information Provided by:
DEALER E-PROCESS

Sit upright and well back.

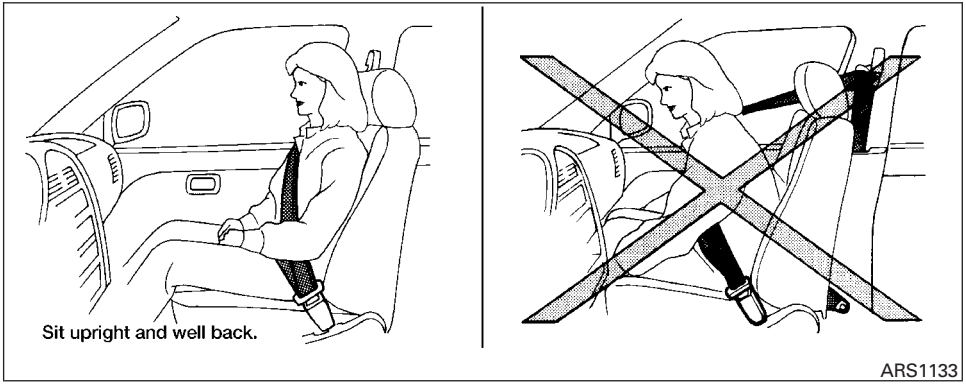


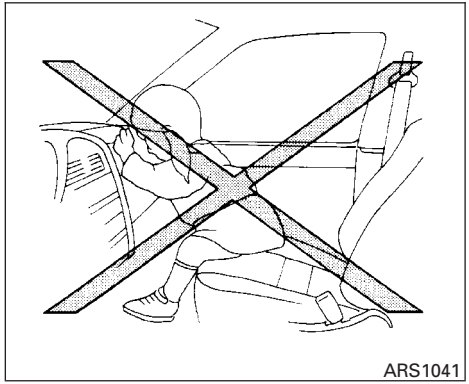
WRS0031

⚠WARNING

- **The front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The front passenger air bag will not inflate if the passenger air bag status light is lit or if the front passenger seat is unoccupied. For additional information, refer to "Front passenger air bag and status light" in this section.**
- **The seat belts and the front air bags are most effective when you are sitting well back and upright in the seat. The front air bags inflate with great force. Even with the NISSAN Advanced Air Bag System, if you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the front air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.**
- **The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The Advanced Air Bag System monitors the severity of a collision and seat belt usage then inflates the air bags as needed. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.**
- **The front passenger seat is equipped with an occupant classification sensor (pressure sensor) that turns the front passenger air bag OFF under some conditions. This sensor is only used in this seat. Failure to be properly seated and wearing the seat belt can increase the risk or severity of injury in an accident. For additional information, refer to "Front passenger air bag and status light" in this section.**
- **Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the front air bag inflates.**

Information Provided by:
DEALER E-PROCESS

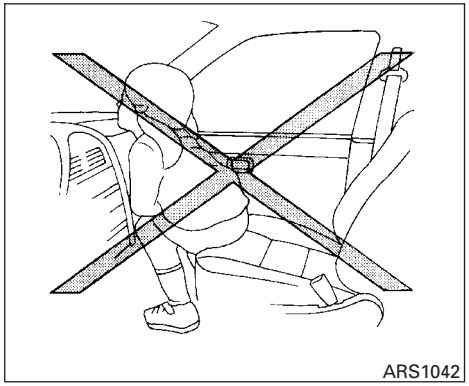




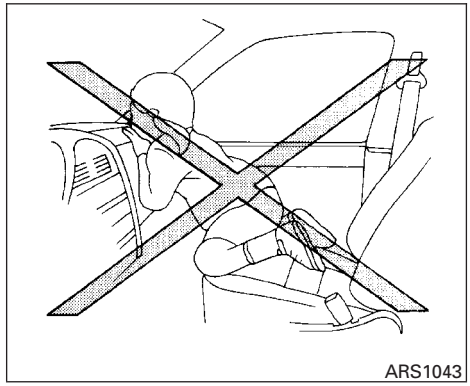
⚠ WARNING

- **Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.**

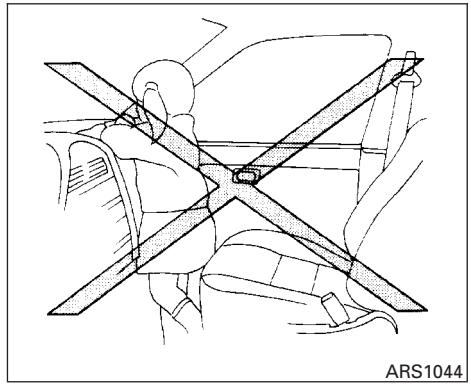
Information Provided by:
DEALER E-PROCESS



ARS1042



ARS1043

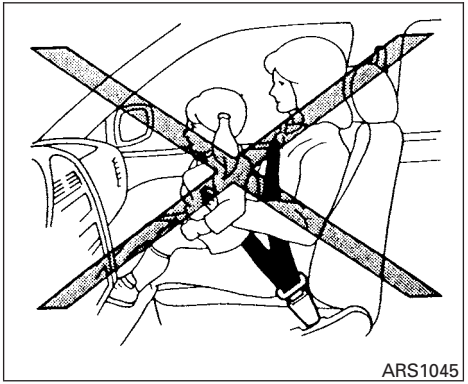


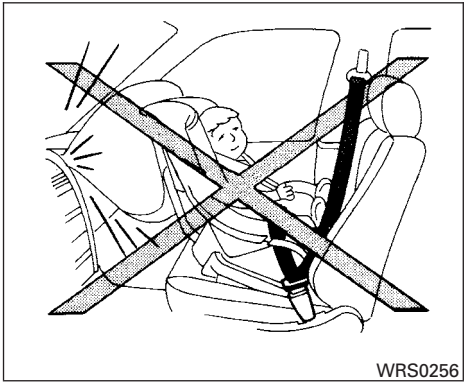
ARS1044

⚠WARNING

- **Children may be severely injured or killed when the front air bags, side air bags or curtain air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.**

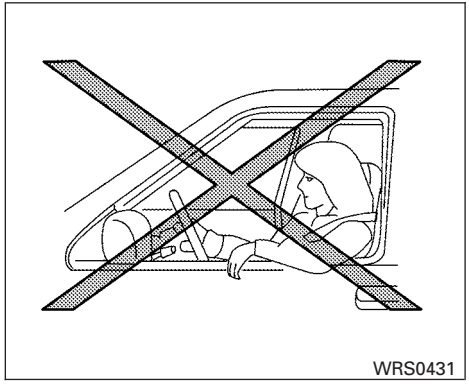
Information Provided by


ARS1045


WRS0256

⚠WARNING

- **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating front air bag could seriously injure or kill your child. For additional information, refer to “Child restraints” in this section.**


WRS0431

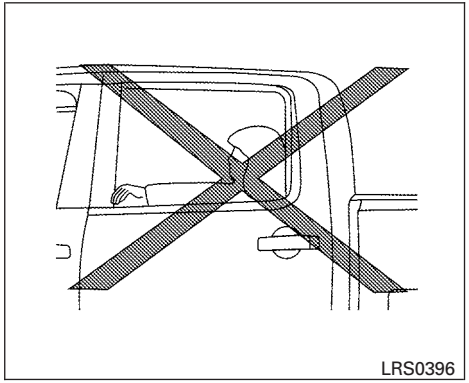
Do not lean against the door.

⚠WARNING

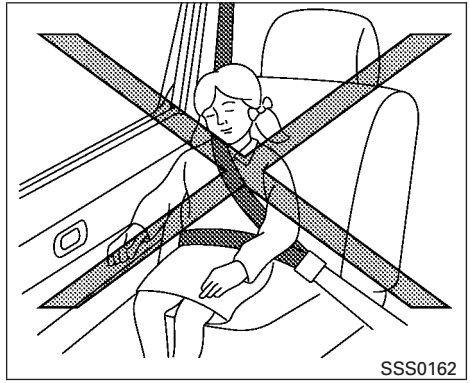
Front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact and rollover supplemental air bags:

- **The side air bags and curtain air bags ordinarily will not inflate in the event of a frontal impact, rear impact, or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**

Information Provided by:
DEALER E-PROCESS



Do not lean against doors or windows.

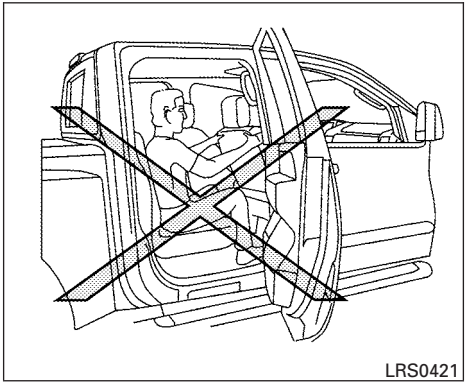


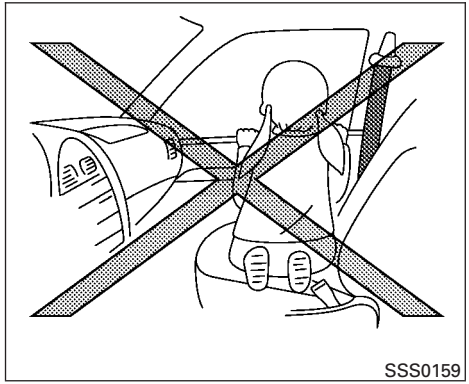
Do not lean against doors or windows.

⚠WARNING

- **The seat belts, the side air bags and curtain air bags are most effective when you are sitting well back and upright in the seat. The side air bag and curtain air bag inflate with great force. Do not allow anyone to place their hand, leg or face near the side air bag on the side of the seatback of the front seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the window or lean against the door. Some examples of dangerous riding positions are shown in the previous illustrations.**

Information Provided by DEALER E-PROCESS

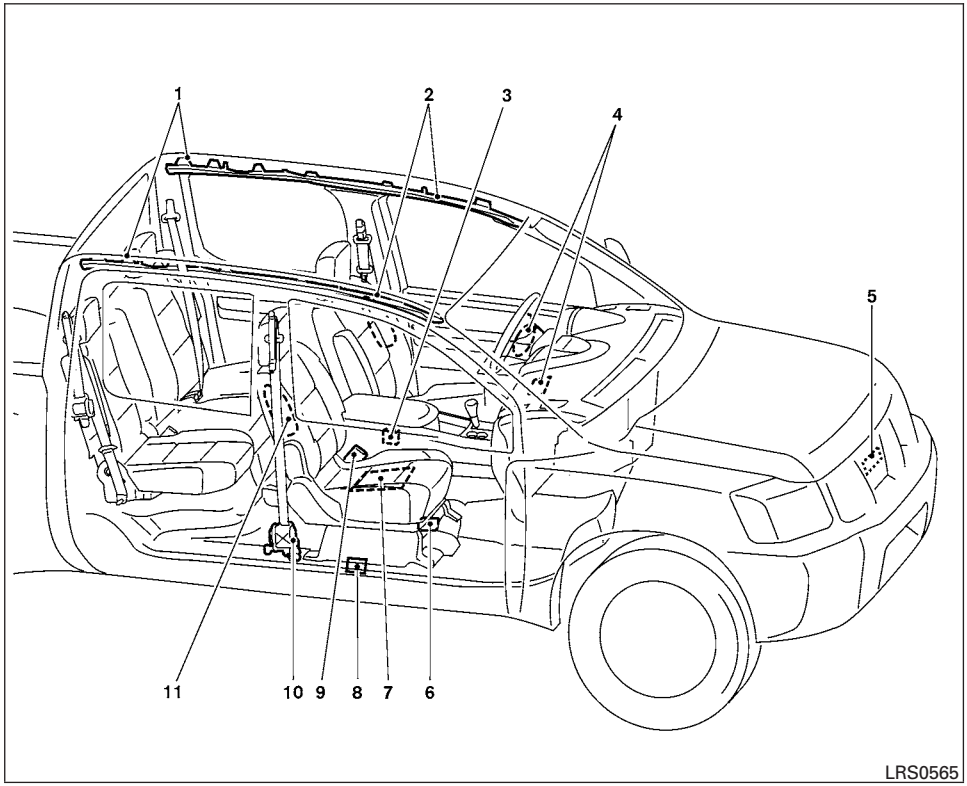

LRS0421


SSS0159

⚠WARNING

- **When sitting in the rear seat, do not hold onto the seatback of the front seat. If the side air bag inflates, you may be seriously injured. Be especially careful with children, who should always be properly restrained. Some examples of dangerous riding positions are shown in the illustrations.**
- **Do not use seat covers on the front seatbacks. They may interfere with side air bag inflation.**

Information Provided by:
DEALER E-PROCESS



NISSAN Advanced Air Bag System (front seats)

1. Roof-mounted curtain side-impact and roll-over supplemental air bags
2. Roof-mounted curtain side-impact and roll-over supplemental air bag inflators
3. Air bag Control Unit (ACU)
4. Supplemental front-impact air bag modules
5. Crash zone sensor
6. Occupant classification system control unit
7. Occupant classification sensor (weight sensor)
8. Satellite sensors
9. Seat belt buckle switches
10. Seat belt with pretensioner
11. Front seat-mounted side-impact supplemental air bag module

This vehicle is equipped with the NISSAN Advanced Air Bag System for the driver and front passenger seats. This system is designed to meet certification requirements under U.S. regulations. It is also permitted in Canada. **However, all of the information, cautions and warnings in this manual still apply and must be followed.**

Information Provided by

The driver supplemental front-impact air bag is located in the center of the steering wheel. The passenger supplemental front-impact air bag is mounted in the dashboard above the glove box. The front air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper front air bag system operation.

The NISSAN Advanced Air Bag System has dual stage inflators. It also monitors information from the crash zone sensor, the Air bag Control Unit (ACU), seat belt buckle sensors, occupant classification sensor (weight sensor) and passenger seat belt tension sensor. Inflator operation is based on the severity of a collision and seat belt usage for the driver. For the front passenger, it additionally monitors the weight of an occupant or object on the seat and seat belt tension. Based on information from the sensors, only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. Additionally, the front passenger air bag may be automatically turned off under some conditions, depending on the weight detected on the passenger seat and how the seat belt is used. If the front passenger air bag is OFF, the passenger air bag status light will be illuminated (if the seat is unoccupied, the light will not be illuminated, but the air bag will be off). For additional information, refer to “Front passenger air bag and status light” in this section. One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, please contact NISSAN or your NISSAN dealer. If you are considering modification of your vehicle due to a disability, you may also contact NISSAN. Contact information is contained in the front of this Owner’s Manual.

When a front air bag inflates, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken to not inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Front air bags, along with the use of seat belts, help to cushion the impact force on the face and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating front air bag may cause facial abrasions or other injuries. Front air bags do not provide restraint to the lower body.

Even with NISSAN advanced air bags, seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or instrument panel. The front air bags inflate quickly in order to help protect the front occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the front air bag module during inflation.

The front air bags deflate quickly after a collision.

The front air bags operate only when the ignition switch is in the ON or START position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

Information Provided by:
DEALER E-PROCESS

Front passenger air bag and status light

⚠WARNING

The front passenger air bag is designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt and child restraints is necessary for most effective protection. Failure to follow all instructions in this manual concerning the use of seats, seat belts and child restraints can increase the risk or severity of injury in an accident.

Status light

The front passenger air bag status light is located near the climate controls. After the ignition switch is placed in the "ON" position, the front passenger air bag status light on the instrument panel illuminates for about 7 seconds and then turns off or remains illuminated depending on the front passenger seat occupied status. The light operates as follows:

- Unoccupied passenger's seat: The light is OFF and the front passenger air bag is OFF and will not inflate in a crash.
- Passenger's seat occupied by a small adult, child or child restraint as outlined in this section: The light illuminates to indicate that the front passenger air bag is OFF and will not inflate in a crash.
- Occupied passenger seat and the passenger meet the conditions outlined in this section: The light is OFF to indicate that the front passenger air bag is operational.

Front passenger air bag

The front passenger air bag is designed to automatically turn OFF when the vehicle is operated under some conditions as described below in accordance with U.S. regulations. If the front passenger air bag is OFF it will not inflate in a crash. The driver air bag and other air bags in your vehicle are not part of this system.

The purpose of the regulation is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF. Certain sensors are used to meet the requirements.

One sensor used is the occupant classification sensor (weight sensor). It is in the bottom of the front passenger seat cushion and is designed to detect an occupant and objects on the seat by weight. It works together with seat belt sensors described in this section. For example, if a child is in the front passenger seat, the Advanced Air Bag System is designed to turn the passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, its weight and the child's weight can be detected and cause the air bag to turn OFF. Occupant classification sensor operation can vary depending on the front passenger seat belt sensors.

The front passenger seat belt sensors are designed to detect if the seat belt is buckled and the amount of tension on the seat belt, such as when it is in the Automatic Locking Retractor (ALR) mode (child restraint mode). Based on the weight on the seat detected by the occupant

Information provided by

classification sensor and the belt tension detected on the seat belt, the Advanced Air Bag System determines whether the front passenger air bag should be automatically turned OFF as required by the regulations.

Front passenger seat adult occupants who are properly seated and using the seat belt as outlined in this manual should not cause the passenger air bag to be automatically turned OFF. For small adults it may be turned OFF, however, if the occupant does not sit in the seat properly (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF. In addition, if the occupant improperly uses the seat belt in the ALR mode, this could cause the air bag to be turned OFF. Always be sure to be seated and wearing the seat belt properly for the most effective protection by the seat belt and supplemental air bag.

NISSAN recommends that pre-teens and children be properly restrained in a rear seat. NISSAN also recommends that appropriate child restraints and booster seats be properly installed in a rear seat. If this is not possible, the occupant classification sensor and seat belt sensors are designed to operate as described above to turn the front passenger air bag OFF for specified child restraints as required by the regulations. Failing to properly secure child restraints and to use the ALR mode may allow the restraint to tip or move in a collision or sudden stop. This can also result in the passenger air bag inflating in a crash instead of being OFF. For additional information, refer to “Child restraints” in this section for proper use and installation.

If the front passenger seat is not occupied, the passenger air bag is designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the object’s weight detected by the occupant classification sensor. Other conditions could also result in air bag inflation, such as if a child is standing on the seat, or if two children are on the seat, contrary to the instructions in this manual. Always be sure that you and all vehicle occupants are seated and restrained properly.

Using the passenger air bag status light, you can monitor when the front passenger air bag is automatically turned OFF with the seat occupied. The light will not illuminate when the front passenger seat is unoccupied.

If an adult occupant is in the seat but the passenger air bag status light is illuminated (indicating that the air bag is OFF), it could be that the person is a small adult, or is not sitting on the seat properly or not using the seat belt properly.

If a child restraint must be used in the front seat, the passenger air bag status light may or may not be illuminated, depending on the size of the child and the type of child restraint being used. If the air bag status light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the child restraint or seat belt is not being used properly. Make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the air bag status light is not illuminated, reposition the occupant or child restraint in a rear seat.

If the passenger air bag status light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). Your NISSAN dealer can check that the system is OFF by using a special tool. However, until you have confirmed with your dealer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The air bag system and passenger air bag status light will take a few seconds to register a change in the passenger seat status. For example, if a large adult who is sitting in the front passenger seat exits the vehicle, the passenger air bag status light will go from OFF to ON for a few seconds and then to OFF. This is normal system operation and does not indicate a malfunction.

Information provided by:
DEALER E-PROCESS

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meter and gauges area of the instrument panel, will blink. Have the system checked by a NISSAN dealer.

Other supplemental front-impact air bag precautions

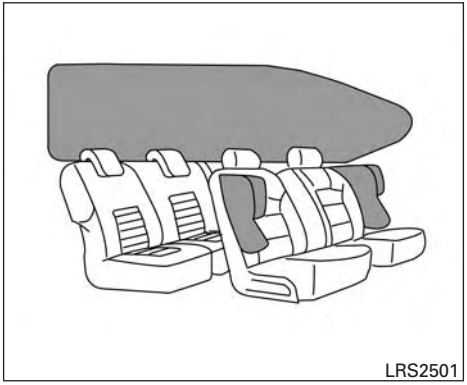
⚠WARNING

- **Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the front air bags inflate.**
- **Immediately after inflation, several front air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. This could affect proper operation of the front air bag system.**
- **Tampering with the front air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.**
- **Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that are not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensor (pressure sensor).**
- **No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the front air bag system. Tampering with the seat belt system may result in serious personal injury.**
- **Work on and around the front air bag system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.**
- **A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect the function of the supplemental air bag system.**

***The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the front air bag system and guide the buyer to the appropriate sections in this Owner's Manual.

Information Provided by:


LRS2501

Front seat-mounted side-impact supplemental air bag and roof-mounted curtain side-impact and rollover supplemental air bag systems

The side air bags are located in the outside of the seatback of the front seats. The curtain air bags are located in the side roof rails. **All of the information, cautions and warnings in this manual apply and must be followed.** The side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions.

Curtain air bags are also designed to inflate in certain types of rollover collisions or near rollovers. As a result, certain vehicle movements (for example, during severe off-roading) may cause the curtain air bags to inflate.

Vehicle damage (or lack of it) is not always an indication of proper side air bag and curtain air bag operation.

When the side air bags and curtain air bags inflate, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Side air bags, along with the use of seat belts, help to cushion the impact force on the chest and pelvic area of the front occupants. Curtain air bags help to cushion the impact force to the head of occupants in the front and rear outboard seating positions. They can help save lives and reduce serious injuries. However, an inflating side air bag or curtain air bag may cause abrasions or other injuries. Side air bags and curtain air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the side air bag. Rear seat passengers should be seated as far away as practical from the door finishers and side roof rails. The side air bags and curtain air bags inflate quickly in order to help protect the occupants. Because of this, the force of the side air bag and curtain air bag inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. The side air bag will deflate quickly after the collision is over.

The curtain air bags will remain inflated for a short time.

The side air bags and curtain air bags operate only when the ignition switch is in the ON or START position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

Information Provided by:
DEALER E-PROCESS

⚠ WARNING

- **Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if a side air bag inflates.**
- **Right after inflation, several side air bag and curtain air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the side air bag and curtain air bag systems. This is to prevent damage to or accidental inflation of the side air bag and curtain air bag systems.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the curtain air bag systems.**
- **Tampering with the side air bag system may result in serious personal injury. For example, do not change the front seats by placing material near the seatbacks or by installing additional trim material, such as seat covers, around the side air bag.**
- **Work around and on the side air bag and curtain air bag systems should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side air bag or curtain air bag systems.**

*** The SRS wiring harness or connectors are yellow or orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain air bag systems and guide the buyer to the appropriate sections in this Owner's Manual.

Seat belts with pretensioners (front seats)

⚠ WARNING

- **The pretensioners cannot be reused after activation. They must be replaced together with the retractor and buckle as a unit.**
- **If the vehicle becomes involved in a collision but a pretensioner is not activated, be sure to have the pretensioner system checked and, if necessary, replaced by your NISSAN dealer.**
- **No unauthorized changes should be made to any components or wiring of the pretensioner system. This is to prevent damage to or accidental activation of the pretensioners. Tampering with the pretensioner system may result in serious personal injury.**
- **Work around and on the pretensioner system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. Unauthorized electrical test equipment and probing devices should not be used on the pretensioner system.**

Information Provided by DEALER E-PROCESS

- **If you need to dispose of a pretensioner or scrap the vehicle, contact a NISSAN dealer. Incorrect disposal procedures could cause personal injury.**

The pretensioner system may activate with the supplemental air bag system in certain types of collisions. Working with the seat belt retractor, the pretensioner helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

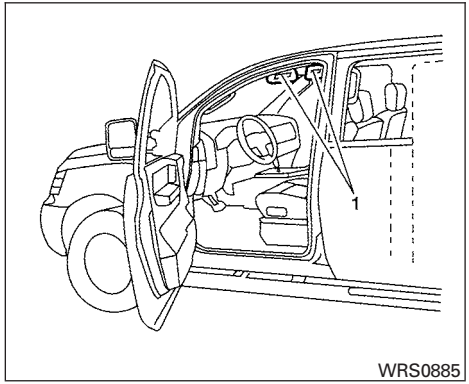
The pretensioner is encased with the seat belt retractor. These seat belts are used the same way as conventional seat belts.

When a pretensioner activates, smoke is released and a loud noise may be heard. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

After pretensioner activation, load limiters allow the seat belt to release webbing (if necessary) to reduce forces against the chest.

The supplemental air bag warning light is used to indicate malfunctions in the pretensioner system. For additional information, refer to "Supplemental air bag warning light" in this section. If the operation of the supplemental air bag warning light indicates there is a malfunction, have the system checked by a NISSAN dealer.

When selling your vehicle, we request that you inform the buyer about the pretensioner system and guide the buyer to the appropriate sections in this Owner's Manual.



1. SRS Air Bag Warning Labels

   The warning labels are located on the surface of the sun visor.

SUPPLEMENTAL AIR BAG WARNING LABELS

Warning labels about the supplemental front-impact air bag system are placed in the vehicle as shown in the illustration.

Information Provided by:
DEALER E-PROCESS

⚠WARNING

Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!

SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying in the instrument panel, monitors the circuits for the air bag systems, pretensioners and all related wiring.

When the ignition switch is placed in the ON or START position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag and pretensioner systems need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Under these conditions, the front air bag, side air bag, curtain air bag or pretensioner systems may not operate properly. They must be checked and repaired. Take your vehicle to the nearest NISSAN dealer.

⚠WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a NISSAN dealer as soon as possible.

Information Provided by DEALER E-PROCESS

Repair and replacement procedure

The front air bags, side air bags, curtain air bags and pretensioners are designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light remains illuminated after inflation has occurred. Repair and replacement of these supplemental air bag systems should be done only by a NISSAN dealer.

When maintenance work is required on the vehicle, the front air bags, side air bags, curtain air bags, pretensioners and related parts should be pointed out to the person performing the maintenance. The ignition switch should always be in the LOCK position when working under the hood or inside the vehicle.

⚠ WARNING

- **Once a supplemental front air bag, side-impact supplemental air bag, roof-mounted curtain side-impact supplemental air bag has inflated, the air bag module will not function again and must be replaced. Additionally, if any of the supplemental front air bags inflate, the activated pretensioners must also be replaced. The air bag module and seat belts with pretensioners should be replaced by a NISSAN dealer. The air bag module and with pretensioners cannot be repaired.**
- **If you need to dispose of a supplemental air bag or pretensioner or scrap the vehicle, contact a NISSAN dealer. Incorrect disposal procedures could cause personal injury.**
- **The front air bag, side air bag, curtain air bag systems and the pretensioner system should be inspected by a NISSAN dealer if there is any damage to the front end or side portion of the vehicle.**

Information Provided by:

MEMO

Information Provided by:

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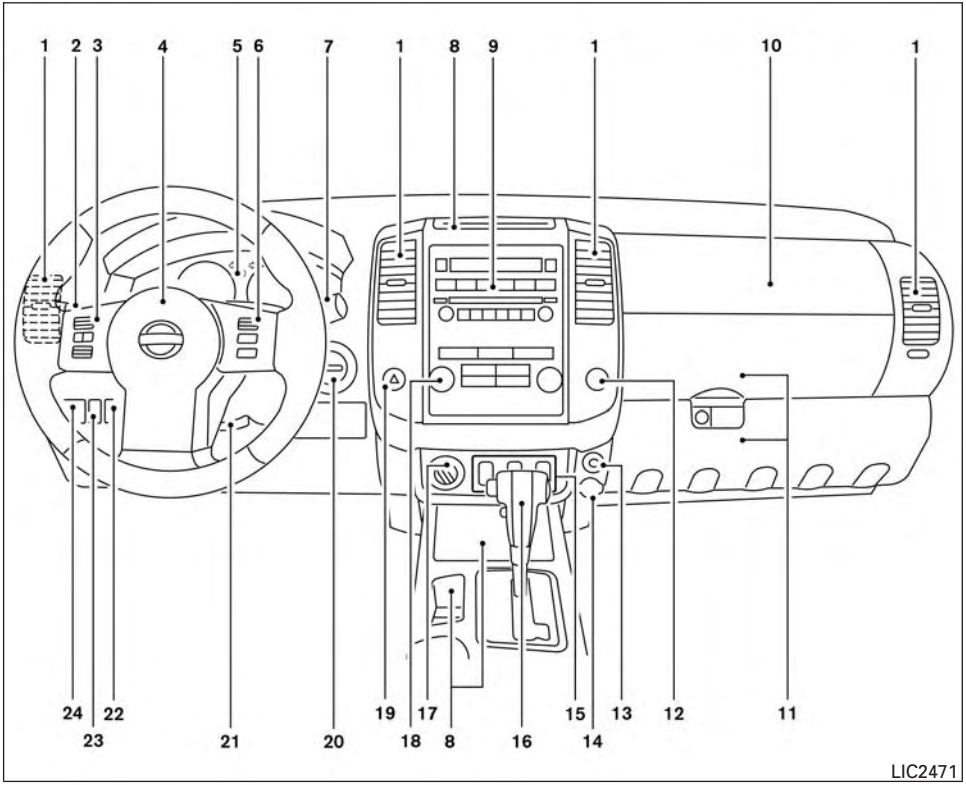
INSTRUMENT PANEL



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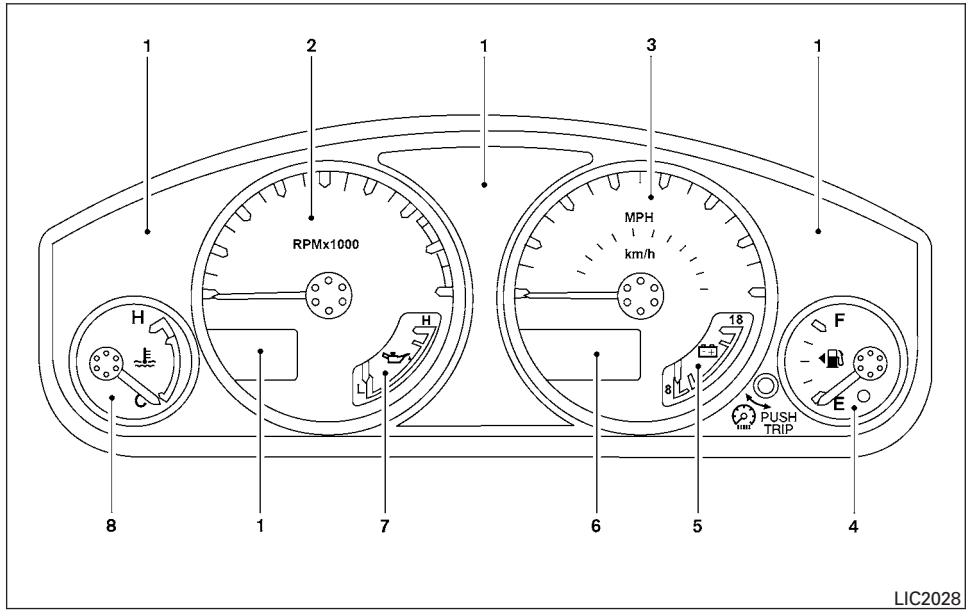
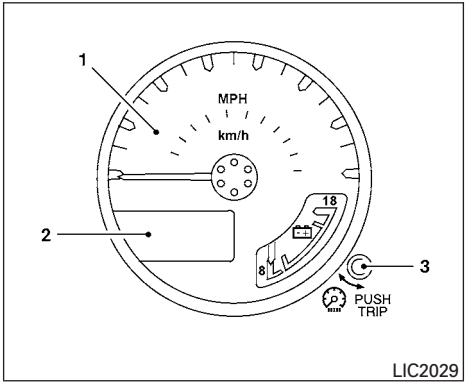


1. Vehicle Information Display
2. Tachometer
3. Speedometer
4. Fuel gauge
5. Voltmeter (if so equipped)
6. Odometer/Twin trip odometer/Trip computer
7. Engine oil pressure gauge (if so equipped)
8. Engine coolant temperature gauge

Information Provided by:
DEALER E-PROCESS



SPEEDOMETER AND ODOMETER

1. Speedometer
2. Odometer/Twin trip odometer
3. Change/reset button

Speedometer

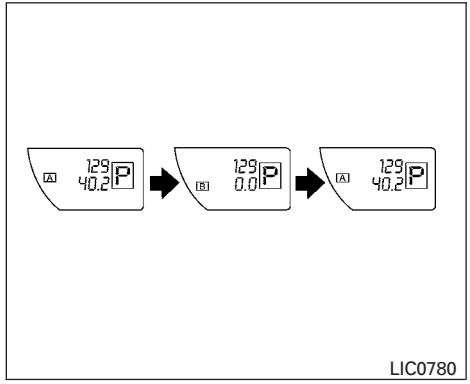
The speedometer indicates vehicle speed.

Odometer/Twin trip odometer

The odometer/twin trip odometer is displayed when the ignition switch is placed in the ON position.

The odometer records the total distance the vehicle is driven.

The twin trip odometer records the distance of individual trips.



With twin trip odometer

Changing the display:

For vehicles equipped with twin trip odometer, pressing the change/reset button changes the display as follows:

Trip **A** → Trip **B** → Trip **A**

Information Provided by:
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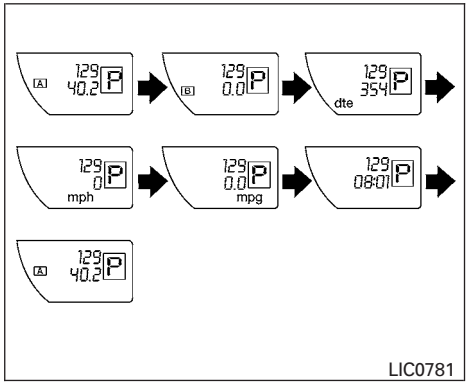


LIC0781

With trip computer

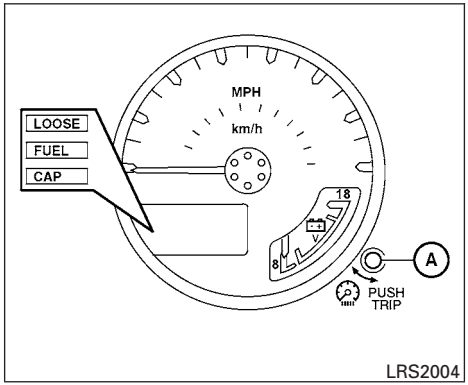
For vehicles equipped with trip computer, pressing the change/reset button changes the display as follows:

Trip A → Trip B → Distance to Empty → Average speed → Average fuel consumption → Journey time → Trip A

For additional information, refer to “Trip computer” in this section.

Resetting the trip odometer:

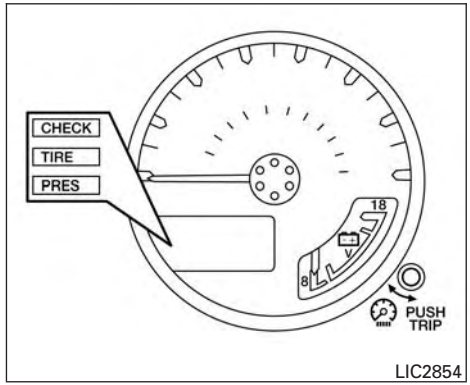
Pushing the change/reset button for more than 1 second resets the currently displayed trip odometer to zero.



LRS2004

Loose fuel cap warning message

Press the change/reset button Ⓐ for more than 1 second to reset the LOOSE FUEL CAP warning message after the fuel cap has been tightened. For additional information, refer to “Fuel-filler cap” in the “Pre-driving checks and adjustments” section of this manual.



LIC2854

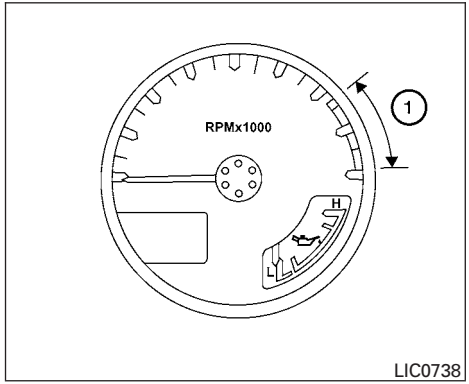
Check tire pressure warning message

The CHECK TIRE PRES (pressure) warning message is displayed when the low tire pressure warning light is illuminated and low tire pressure is detected. Check and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label. The CHECK TIRE PRES warning message turns off when the low tire pressure warning light turns off.

The low tire pressure warning light remains illuminated until the tires are inflated to the recommended COLD tire pressure. The CHECK TIRE PRES warning message is displayed each time the ignition switch is placed in the ON position as

Information Provided by:
DEALER E-PROCESS

long as the low tire pressure warning light remains illuminated. For additional information, refer to “Low tire pressure warning light” in the “Instruments and controls” section, “Tire Pressure Monitoring System (TPMS)” in the “Starting and driving” section and “Wheels and tires” section in the “Maintenance and do-it-yourself” section of this manual.

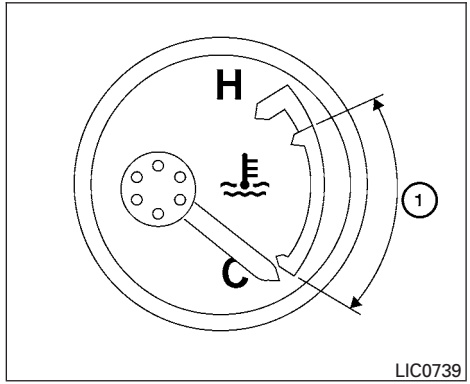


TACHOMETER

The tachometer indicates engine speed in revolutions per minute (RPM). Do not rev the engine into the red zone ①.

⚠ CAUTION

When engine speed approaches the red zone, shift to a higher gear or reduce engine speed. Operating the engine in the red zone may cause serious engine damage.



ENGINE COOLANT TEMPERATURE GAUGE

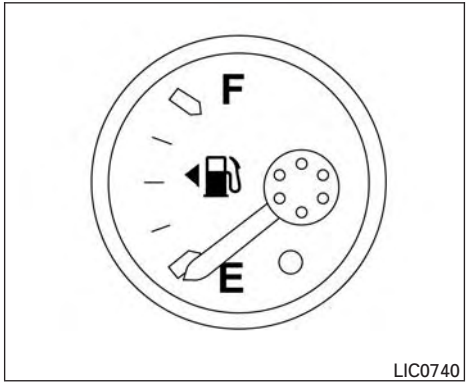
The gauge indicates the engine coolant temperature. The engine coolant temperature is within the normal range ① when the gauge needle points within the zone shown in the illustration.

The engine coolant temperature varies with the outside air temperature and driving conditions.

Information Provided by:
DEALER E-PROCESS

⚠CAUTION

If the gauge indicates coolant temperature near the hot (H) end of the normal range, reduce vehicle speed to decrease temperature. If the gauge is over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. For additional information, refer to "If your vehicle overheats" in the "In case of emergency" section of this manual for immediate action required.



LIC0740

FUEL GAUGE

The gauge indicates the **approximate** fuel level in the tank.

The gauge may move slightly during braking, turning, acceleration, or going up or down hills.

The gauge needle returns to E (Empty) after the ignition key is turned to OFF.

The low fuel warning light comes on when the amount of fuel in the tank is getting low.

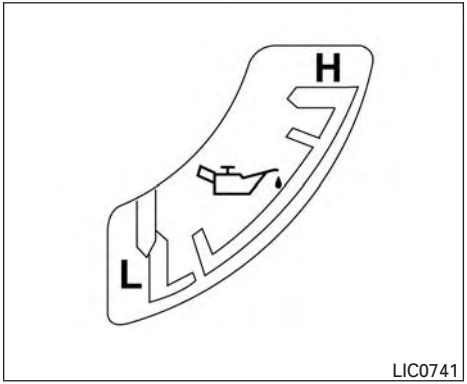
Refill the fuel tank before the gauge registers E (Empty).

The ◀⛽ indicates that the fuel-filler door is located on the driver's side of the vehicle.

⚠CAUTION

- **If the vehicle runs out of fuel, the Malfunction Indicator Light (MIL) may come on. Refuel as soon as possible. After a few driving trips, the light should turn off. If the light remains on after a few driving trips, have the vehicle inspected by a NISSAN dealer.**
- **For additional information, refer to "Malfunction Indicator Light (MIL)" in this section.**

Information Provided by:
DEALER E-PROCESS



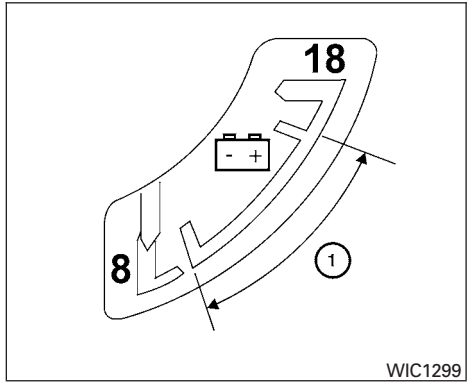
LIC0741

ENGINE OIL PRESSURE GAUGE (if so equipped)

The gauge indicates the engine lubrication system oil pressure while the engine is running. The needle should be in the middle of the gauge when the engine is running.

⚠ CAUTION

- **This gauge is not designed to indicate low engine oil level. Use the dipstick to check the oil level. For additional information, refer to “Engine oil” in the “Maintenance and do-it-yourself” section of this manual.**
- **If the gauge needle does not move with the proper amount of engine oil, have the vehicle checked by a NISSAN dealer. Continued vehicle operation in such a condition could cause serious damage to the engine.**



WIC1299

VOLTMETER (if so equipped)

When the ignition switch is placed in the ON position, the voltmeter indicates the battery voltage. When the engine is running, it indicates the generator voltage.

While cranking the engine, the volts drop below the normal range. If the needle is not in the normal range (11 - 15 volts) ① while the engine is running, it may indicate that the charging system is not functioning properly. Have the system checked by a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS

TRIP COMPUTER (if so equipped)

The display of the trip computer is situated in the speedometer display. When the ignition switch is placed in the ON position, the display scrolls all the modes of the trip computer and then shows the mode chosen before the ignition switch was placed in the OFF position.

When the ignition switch is placed in the ON position, modes of the trip computer can be selected by pressing the change/reset button. The following modes can be selected:

Distance to empty (dte—mile or km)

The distance to empty (dte) mode provides you with an estimation of the distance that can be driven before refueling. The dte is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The display is updated every 30 seconds.

The dte mode includes a low range warning feature: when the fuel level is low, the dte mode is automatically selected and the digits blink in order to draw the driver's attention. Press the change/reset button if you wish to return to the mode that was selected before the warning occurred. The dte mark will remain blinking until the vehicle is refueled.

When the fuel level drops even lower, the dte display will change to (----).

NOTE:

- **If the amount of fuel added while the ignition switch is OFF is small, the display just before the ignition switch is turned OFF may continue to be displayed.**
- **When driving uphill or rounding curves, the fuel in the tank shifts, which may momentarily change the display.**

Average fuel consumption (Mpg or l/100km)

The average fuel consumption mode shows the average fuel consumption since the last reset. Resetting is done by pressing the change/reset button for more than approximately 1 second. The display is updated every 30 seconds. At about the first 1/3 miles (500 m) after a reset, the display shows (----).

Average speed (MPH or km/h)

The average speed mode shows the average vehicle speed since last reset. Resetting is done by pressing the change/reset button for more than approximately 1 second. The display is updated every 30 seconds. The first 30 seconds after a reset, the display shows (----).

Journey time

The journey time mode shows the time since the last reset. The displayed time can be reset by pressing the change/reset button for more than approximately 1 second.

Trip computer reset

Pressing the change/reset button for more than 3 seconds will reset all modes except Trip A and distance to empty.

Information Provided by:
DEALER E-PROCESS

COMPASS AND OUTSIDE TEMPERATURE DISPLAY (if so equipped)

This unit has the following functions:

- Measures terrestrial magnetism and indicates heading direction of vehicle
- Indicates outside air temperature

With the ignition switch in the ON position, press the ⏻ or -N- button as described in the charts below to activate various features of the automatic anti-glare rearview mirror.

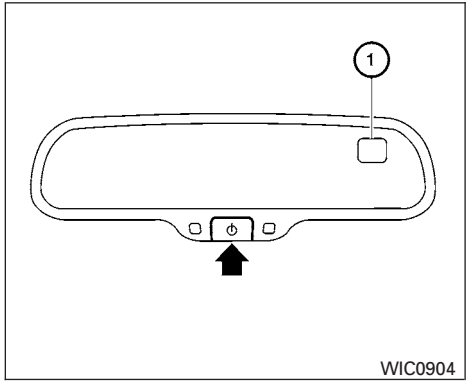
Type A (if so equipped)

Press and hold the ⏻ button for about:	Feature: (Press button again for about 1 second to change settings)
1 second	Compass display toggles on/off
8 seconds	Automatic anti-glare/indicator light toggles on/off
11 seconds	Compass zone can be changed to correct false compass readings
13 seconds	Compass enters calibration mode

Type B (if so equipped)

Press and hold the -N- button for about:	Feature: (Press button again for about 1 second to change settings)
1 second	Compass display toggles on/off
8 seconds	Compass zone can be changed to correct false compass readings
10 seconds	Compass enters calibration mode

For additional information about the automatic anti-glare feature, refer to “Automatic anti-glare rearview mirror” in the “Pre-driving checks and adjustments” section of this manual.



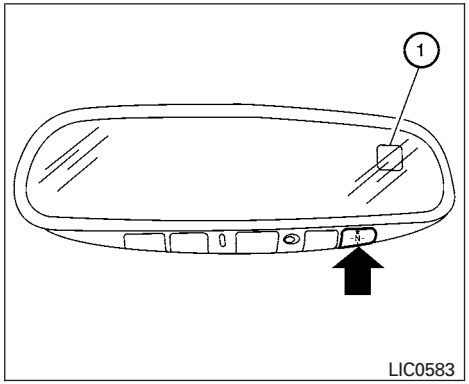
Type A (if so equipped)

OUTSIDE TEMPERATURE DISPLAY

Push the ⏻ or -N- button for about 1 second when the ignition key is in the ON position to toggle the outside temperature and compass direction display ① on or off.

- To change from °F to °C, push and hold the ⏻ button for about 5 seconds or the -N- button for about 3 seconds until the display begins to flash. Press the button again to toggle between °C and °F.

Information Provided by: DEALER E-PROCESS



Type B (if so equipped)

- When the outside temperature is between 140°F (60°C) and 194°F (90°C), the display will read 140°F (60°C). When the temperature is above 194°F (90°C), the display will read “SC”.
- When the outside temperature is between than -40°F (-40°C) and -60°F (-51°C), the display will read -40°F (-40°C). When the temperature is below -60°F (-51°C), the display will read “OC”.
- The outside temperature sensor is located in front of the radiator. The sensor may be affected by road or engine heat, wind direction and other driving conditions. The display may differ from the actual outside temperature or the temperature displayed on various signs or billboards.

COMPASS DISPLAY

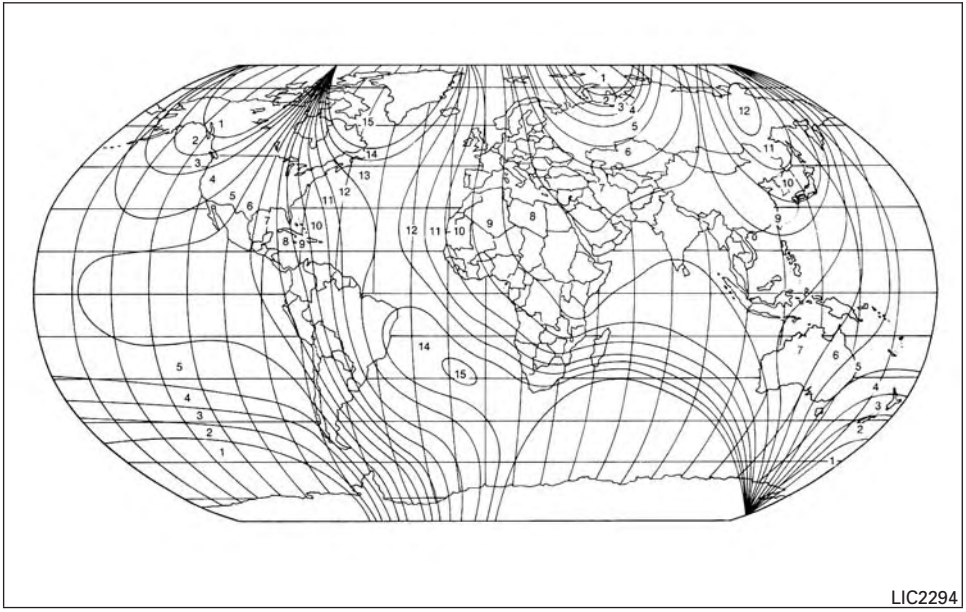
Push the ⏻ or -N- button for about 1 second when the ignition switch is placed in the ON position to toggle the outside temperature and compass direction display ① on or off. The display will indicate the direction that the vehicle is heading.

N: North
E: East
S: South
W: West

If the display reads “C”, calibrate the compass by driving the vehicle in three complete circles at less than 5 MPH (8 km/h).

You can also calibrate the compass by driving your vehicle on your everyday route. The compass will be calibrated once it has tracked three complete circles.

Information Provided by:
DEALER E-PROCESS



Zone variation change procedure

The difference between magnetic north and geographical north is known as variance. In some areas, this difference can sometimes be great enough to cause false compass readings. Follow these instructions to set the variance for your particular location if this happens:

1. Press and hold the ⏻ button for about 11 seconds or the -N- button for about 8 seconds. The current zone number will appear in the display. Release the button.
2. Find your current location on the zone map. Refer to the illustration.
3. Press the ⏻ or the -N- button repeatedly to toggle through the zone numbers until the desired number appears in the display. Once you have selected a zone number, the display will show a compass direction within a few seconds.

Inaccurate compass direction

The compass display is equipped with automatic correction function. If the correct direction is not shown, follow this procedure.

1. With the display turned on, press and hold the -N- for about 10 seconds. The “C” icon in the compass display will illuminate.
2. Calibrate the compass by driving the vehicle in three complete circles at a maximum speed of 5 MPH (8 km/h).
3. After completing the circles, the display should return to normal.

Information Provided by:
DEALER E-PROCESS

⚠CAUTION

- **Do not install a ski rack, antenna, etc., which are attached to the vehicle by means of a magnet. They affect the operation of the compass.**
- **When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as it may cause the liquid cleaner to enter the mirror housing.**

Information Provided by:
DEALER E-PROCESS

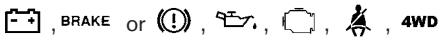
WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS

- ABS or Anti-lock Braking System (ABS) warning light
- AT CHECK — Automatic Transmission check warning light (if so equipped)
- AT OIL TEMP — Automatic transmission oil temperature warning light (if so equipped)
- ATP — Automatic Transmission park warning light (4x4 model)
- BRAKE or Brake warning light
- Charge warning light
- Door open warning light
- Engine oil pressure warning light
- 4WD — 4WD warning light (4x4 model)
- Low fuel warning light
- Low tire pressure warning light
- Low windshield-washer fluid warning light (if so equipped)
- Seat belt warning light and chime
- Supplemental air bag warning light
- Automatic transmission position indicator light (if so equipped)
- CRUISE — Cruise main switch indicator light (if so equipped)
- SET — Cruise set switch indicator light (if so equipped)
- DIFF LOCK — Electronic locking rear differential (E-Lock) system on indicator light (if so equipped)
- 4WD shift indicator light (4x4 model)
- Front passenger air bag status light
- High beam indicator light (blue)
- Hill descent control system on indicator light (if so equipped)
- Malfunction Indicator Light (MIL)
- O/D OFF — Overdrive off indicator light (A/T models only)
- Security indicator light (if so equipped)
- Slip indicator light
- 4LO — Transfer 4LO position indicator light (4x4 model)
- Turn signal/hazard indicator lights
- Vehicle Dynamic Control (VDC) OFF indicator light

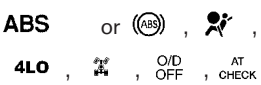
Information Provided by: DEALER E-PROCESS

CHECKING BULBS

With all doors closed, apply the parking brake and turn the ignition key to the ON position without starting the engine. The following lights will come on:

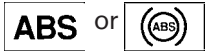


The following lights come on briefly and then go off:



If any light fails to come on, it may indicate an open circuit in the electrical system. Have the system repaired promptly.

WARNING LIGHTS



Anti-lock Braking System (ABS) warning light

When the ignition switch is placed in the ON position, the ABS warning light illuminates and then turns off. This indicates the ABS is operational.

If the ABS warning light illuminates while the engine is running or while driving, it may indicate the ABS is not functioning properly. Have the system checked by a NISSAN dealer.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally but without anti-lock assistance. For additional information, refer to “Brake system” in the “Starting and driving” section of this manual.

Automatic transmission check warning light (if so equipped)

When the ignition switch is placed in the ON position, the light comes on for about 2 seconds. If the light comes on at any other time, it may indicate the automatic transmission system is not functioning properly. Have the system checked by a NISSAN dealer.

Automatic transmission oil temperature warning light (if so equipped)

This light comes on when the automatic transmission oil temperature is too high. If the light comes on while driving, reduce the vehicle speed as soon as safely possible until the light turns off.

⚠CAUTION

Continued vehicle operation when the A/T oil temperature warning light is on may damage the automatic transmission.

Automatic transmission park warning light (4x4 model)

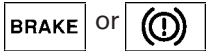
⚠WARNING

- **If the ATP light is ON, this indicates that the automatic transmission P (Park) position will not function and the transfer case is in neutral.**
- **When parking, always make sure that the 4WD shift indicator light illuminates and the parking brake is set. Failure to engage the transfer position in 2WD, 4H or 4LO could result in the vehicle moving unexpectedly, resulting in serious personal injury or property damage.**

Information Provided by:
DEALER E-PROCESS

- **Shift the 4WD switch into the 2WD, 4H or 4LO position again to turn off the ATP warning light when the shift lever is in the P position and the ATP warning light is ON. (Before shifting the 4WD switch into the 4LO position, move the shift lever into the N position once, shift the shift lever into P again and make sure the ATP warning light is OFF.)**

This light indicates that the automatic transmission parking function is not engaged. If the transfer control is not secured in any drive position while the shift lever is in the P (Park) position, the transmission will disengage and the drive wheels will not lock.



or Brake warning light

This light functions for both the parking brake and the foot brake systems.

Parking brake indicator

When the ignition switch is placed in the ON position, the light comes on when the parking brake is applied.

Low brake fluid warning light

When the ignition switch is placed in the ON position, the light warns of a low brake fluid level. If the light comes on while the engine is running, with the parking brake not applied, stop the vehicle and perform the following:

1. Check the brake fluid level. Add brake fluid as necessary. For additional information, refer to “Brake fluid” in the “Maintenance and do-it-yourself” section of this manual.
2. If the brake fluid level is correct, have the warning system checked by a NISSAN dealer.

⚠WARNING

- **Your brake system may not be working properly if the warning light is on. Driving could be dangerous. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.**
- **Pressing the brake pedal with the engine stopped and/or a low brake fluid level may increase your stopping distance and braking will require greater pedal effort and pedal travel.**
- **If the brake fluid level is below the MINIMUM or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked at a NISSAN dealer.**

Anti-lock Braking System (ABS) warning indicator

When the parking brake is released and the brake fluid level is sufficient, if both the brake warning light and the ABS warning light illuminates, it may indicate the ABS is not functioning properly. Have the brake system checked and, if necessary, repaired by a NISSAN dealer promptly. Avoid high-speed driving and abrupt braking. For additional information, refer to “Anti-lock Braking System (ABS) warning light” in this section.

Charge warning light

If this light comes on while the engine is running, it may indicate the charging system is not functioning properly. Turn the engine off and check the generator belt. If the belt is loose, broken, missing, or if the light remains on, see a NISSAN dealer immediately.

Information Provided by:
DEALER E-PROCESS

⚠CAUTION

- **Do not ground electrical accessories directly to the battery terminal. Doing so will bypass the variable control system and the vehicle battery may not charge completely. For additional information, refer to "Variable voltage control system" in the "Maintenance and do-it-yourself" section of this manual.**
- **Do not continue driving if the generator belt is loose, broken or missing**

Door open warning light

This light comes on when any of the doors are not closed securely while the ignition switch is in the ON position.

Engine oil pressure warning light

This light warns of low engine oil pressure. If the light flickers or comes on during normal driving, pull off the road in a safe area, stop the engine **immediately,** and call a NISSAN dealer or other authorized repair shop.

The engine oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. For additional information, refer to "Engine oil" in the "Maintenance and do-it-yourself" section of this manual.

⚠CAUTION

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Such damage is not covered by warranty. Turn off the engine as soon as it is safe to do so.

4WD warning light (4x4 model)

The 4WD warning light comes on when the ignition switch is turned to ON. It turns off soon after the engine is started.

If the engine or vehicle is not functioning properly, the warning light will either remain illuminated or blink. For additional information, refer to "4WD warning light" in the "Starting and driving" section of this manual.

⚠CAUTION

- **If the warning light comes on or blinks during operation, have your vehicle checked by a NISSAN dealer as soon as possible.**
- **Do not drive on dry hard surface roads in the 4H or 4LO position. If the 4WD warning light turns on when you are driving on dry hard surface roads:**
  - **in the 4H position, shift the 4WD shift switch to 2WD.**
  - **in the 4LO position for automatic transmission models, stop the vehicle and shift the shift lever to the N (Neutral) position with the brake pedal depressed and shift the 4WD shift switch to 2WD.**
  - **in the 4LO position for manual transmission models, stop the vehicle and shift the shift lever to the N (Neutral) position with the clutch pedal depressed and shift the 4WD shift switch to 2WD,**
- **If the warning light is still on after the above operation, have your vehicle checked by a NISSAN dealer as soon as possible.**

Information Provided by:
DEALER E-PROCESS

Low fuel warning light

This light comes on when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches E (Empty). **There will be a small reserve of fuel in the tank when the fuel gauge needle reaches E (Empty).**

Low tire pressure warning light

Your vehicle is equipped with a TPMS that monitors the tire pressure of all tires except the spare.

The low tire pressure warning light warns of low tire pressure or indicates that the TPMS is not functioning properly.

After the ignition switch is placed in the ON position, this light illuminates for about 1 second and turns off.

Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate. A CHECK TIRE PRES (pressure) warning message is also displayed in the odometer.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure of all 4 tires to the recommended COLD tire pressure shown on the Tire and Loading Information label located in the driver's door opening. The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

The low tire pressure warning light remains illuminated until the tires are inflated to the recommended COLD tire pressure. The CHECK TIRE PRES warning message is displayed each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.

For additional information, refer to "Check tire pressure warning message" in the "Instruments and controls" section and "Tire Pressure Monitoring System (TPMS)" in the "Starting and driving" section and in the "In case of emergency" section.

TPMS malfunction:

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is placed in the ON position. The light will remain on after the 1 minute. Have the system checked by a NISSAN dealer. The CHECK TIRE PRES warning message is not displayed if the low tire pressure warning light illuminates to indicate a TPMS malfunction.

For additional information, refer to "Tire Pressure Monitoring System (TPMS)" in the "Starting and driving" section and "Tire pressure" in the "Maintenance and do-it-yourself" section of this manual.

⚠WARNING

- **If the light does not illuminate with the ignition switch placed in the ON position, have the vehicle checked by a NISSAN dealer as soon as possible.**

Information Provided by: DEALER E-PROCESS

- **If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all 4 tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label located in the driver's door opening to turn the low tire pressure warning light OFF. If the light still comes on while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.**
- **When a spare tire is mounted or a wheel is replaced the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. The CHECK TIRE PRES warning message is not displayed if the low tire pressure warning light illuminates to indicate a TPMS malfunction. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**

⚠CAUTION

- **The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.**
- **If the vehicle is being driven at speeds of less than 16 MPH (25 km/h), the TPMS may not operate correctly.**
- **Be sure to install the specified size of tires to the 4 wheels correctly.**

Low windshield-washer fluid warning light (if so equipped)

This light comes on when the windshield-washer fluid is at a low level. Add windshield-washer fluid as necessary. For additional information, refer to "Windshield-washer fluid" in the "Maintenance and do-it-yourself" section of this manual.

Seat belt warning light and chime

The light and chime remind you to fasten your seat belts. The light illuminates whenever the ignition switch is placed in the ON or START position and remains illuminated until the driver's seat belt is fastened. At the same time, the chime sounds for about 6 seconds unless the driver's seat belt is securely fastened.

The seat belt warning light may also illuminate if the front passenger's seat belt is not fastened when the front passenger's seat is occupied . For 7 seconds after the ignition switch is placed in the ON position, the system does not activate the warning light for the front passenger.

For additional information, refer to "Seat belts" in the "Safety—Seats, seat belts and supplemental restraint system" section of this manual for precautions on seat belt usage.

Information Provided by:
DEALER E-PROCESS

Supplemental air bag warning light

When the ignition switch is in the ON or START position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag, and pretensioner systems need servicing and your vehicle must be taken to a NISSAN dealer:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Unless checked and repaired, the supplemental restraint system (air bag system) and/or the pretensioners may not function properly. For additional information, refer to “Supplemental restraint system” in the “Safety—Seats, seat belts and supplemental restraint system” section of this manual.

⚠WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag systems, and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a NISSAN dealer as soon as possible.

INDICATOR LIGHTS

Automatic transmission position indicator light (if so equipped)

For additional information, refer to “Driving the vehicle” in the “Starting and driving” section of this manual.

Cruise main switch indicator light (if so equipped)

The light comes on when the cruise control main switch is pushed. The light goes out when the main switch is pushed again. When the cruise main switch indicator light comes on, the cruise control system is operational.

For additional information, refer to “Cruise control” in the “Starting and driving” section of this manual.

Cruise set switch indicator light (if so equipped)

The light comes on while the vehicle speed is controlled by the cruise control system. If the light blinks while the engine is running, it may indicate the cruise control system is not functioning properly. Have the system checked by a NISSAN dealer.

Electronic locking rear differential (E-Lock) system on indicator light (if so equipped)

This light comes on when the electronic locking rear differential (E-Lock) system clutch is fully engaged.

The indicator light flashes when the system is first turned on. When the system fully engages, the light remains on. If the switch is on and the indicator light continues to flash, the system is not engaged.

Information Provided by:
DEALER E-PROCESS

For additional information, refer to “Electronic locking rear differential (E-Lock) system switch” in this section and “Electronic locking rear differential (E-Lock) system” in the “Starting and driving” section of this manual.

4WD shift indicator light (4x4 model)

The light should turn off within 1 second after placing the ignition switch in the ON position.

While the engine is running, the 4WD shift indicator light will illuminate the position selected by the 4WD shift switch.

The 4WD shift indicator light may blink while shifting from one drive mode to the other.

Front passenger air bag status light

The front passenger air bag status light ( ) will be lit and the passenger front air bag will be OFF depending on how the front passenger seat is being used.

For front passenger air bag status light operation, refer to “Front passenger air bag and status light” in the “Safety — Seats, seat belts and supplemental restraint system” section of this manual.

High beam indicator light (blue)

This blue light comes on when the headlight high beams are on and goes out when the low beams are selected.

The high beam indicator light also comes on when the passing signal is activated.

Hill descent control system on indicator light (if so equipped)

When the ignition switch is placed in the ON position, this light comes on briefly and then turns off.

The light comes on when the hill descent control system is activated.

If the hill descent control switch is on and the indicator light blinks, the system is not engaged.

If the indicator light does not come on when the hill descent switch is on, the system may not be functioning properly. Have the system checked by a NISSAN dealer.

For additional information, refer to “Hill descent control system on indicator light” in this section and “Hill descent control system” in the “Starting and driving” section of this manual.

Malfunction Indicator Light (MIL)

If this indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control malfunction.

The MIL may also come on steady if the fuel-filler cap is loose or missing, or if the vehicle runs out of fuel. Check to make sure the fuel-filler cap is installed and closed tightly, and that the vehicle has at least 3 gal (11.4 L) of fuel in the fuel tank.

After a few driving trips, the light should turn off if no other potential emission control system malfunction exists.

If this indicator light comes on steady for 20 seconds and then blinks for 10 seconds when the engine is not running, it indicates that the vehicle is not ready for an emission control system inspection/maintenance test. For additional information, refer to “Readiness for inspection/maintenance (I/M) test” in the “Technical and consumer information” section of this manual.

Information Provided by:
DEALER E-PROCESS

Operation

The MIL will come on in one of 2 ways:

- MIL on steady — An emission control system malfunction has been detected. Check the fuel-filler cap if the LOOSE FUEL CAP warning message is displayed in the odometer. If the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.
- MIL blinking — An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:
  - do not drive at speeds above 45 MPH (72 km/h).
  - avoid hard acceleration or deceleration.
  - avoid steep uphill grades.
  - if possible, reduce the amount of cargo being hauled or towed.

The MIL may stop blinking and come on steady. Have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.

⚠CAUTION

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

O/D OFF Overdrive OFF indicator light

This light comes on when the overdrive function is OFF.

The automatic transmission overdrive function is controlled by the overdrive switch.

For additional information, refer to “Driving the vehicle” in the “Starting and driving” section of this manual.

Security indicator light (if so equipped)

This light blinks when the ignition switch is in the OFF, LOCK or ACC position. This function indicates the security systems equipped on the vehicle are operational.

For additional information, refer to “Security systems” in this section.

Slip indicator light

This indicator will blink when the VDC system is operating, thus alerting the driver to the fact that the road surface is slippery and the vehicle is nearing its traction limits.

You may feel or hear the system working; this is normal.

The light will blink for a few seconds after the VDC system stops limiting wheel spin.

The indicator light also comes on when you place the ignition switch in the ON position. The light will turn off after approximately 2 seconds if the system is operational. If the light does not come on have the system checked by a NISSAN dealer.

Information Provided by: DEALER E-PROCESS

Transfer 4LO position indicator light (4x4 model)

This light comes on when the 4WD shift switch is set in the 4LO position with the ignition switch in the ON position.

The transfer case may be damaged if you shift the switch while driving.

Make sure the transfer 4LO position indicator light turns on when you shift the 4WD shift switch to 4LO.

The indicator light may blink while shifting from one drive mode to the other.

The 4LO indicator light must stop blinking and remain illuminated or turn off before shifting the transmission into gear. If the shift lever is shifted from the N (Neutral) position to any other gear when the 4LO indicator light is blinking, the vehicle may move unexpectedly.

When you shift between 4H and 4LO, follow the instructions below:

- For automatic transmission models, stop the vehicle and shift the shift lever to the N (Neutral) position with the brake pedal depressed, then depress and turn the 4WD shift switch to 4LO or 4H.
- For manual transmission models, stop the vehicle and shift the shift lever to the N (Neutral) position with the clutch pedal depressed, then depress and turn the 4WD shift switch to 4LO or 4H.

You cannot move the transfer 4WD shift switch between 4H and 4LO unless you stop the vehicle and shift the shift lever to the N position with the brake pedal (A/T models) or clutch pedal (M/T models) depressed.

Turn signal/hazard indicator lights

The appropriate light flashes when the turn signal switch is activated.

Both lights flash when the hazard switch is turned on.

Vehicle Dynamic Control (VDC) OFF indicator light

This indicator light comes on when the Vehicle Dynamic Control off switch is pushed to OFF, the transfer case is in the 4LO position (4x4 model), or when the Vehicle Dynamic Control system is not functioning properly. This indicates the Vehicle Dynamic Control system is not operating.

Push the Vehicle Dynamic Control off switch again or restart the engine and the system will operate normally. For additional information, refer to “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section of this manual.

The Vehicle Dynamic Control light also comes on when you turn the ignition key to the ON position. The light will turn off after about 2 seconds if the system is operational. If the light stays on or comes on along with the SLIP indicator light while you are driving, have the Vehicle Dynamic Control system checked by a NISSAN dealer.

If the battery is removed or discharged, the Vehicle Dynamic Control system is disabled and the VDC indicator light will not turn off after 2 seconds when the ignition switch is turned to the ON position. To reset the system, you must perform the reset procedure. For additional information, refer to “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section of this manual.

If the light does not go off after performing the reset procedure, have the traction control system checked by a NISSAN dealer.

While the Vehicle Dynamic Control system is operating, you might feel slight vibration or hear the system working when starting the vehicle or accelerating, but this is normal.

Information Provided by: DEALER E-PROCESS

The VDC system will be disabled and the VDC light will illuminate when the electronic locking rear differential (E-lock) system switch (if so equipped) is turned on and the E-lock system is engaged. If the E-lock system disengages or the switch is turned off, the VDC system will be enabled and the VDC light will turn off.

AUDIBLE REMINDERS

Brake pad wear warning

The disc brake pads have audible wear warnings. When a disc brake pad requires replacement, it makes a high pitched scraping sound when the vehicle is in motion, whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the warning sound is heard.

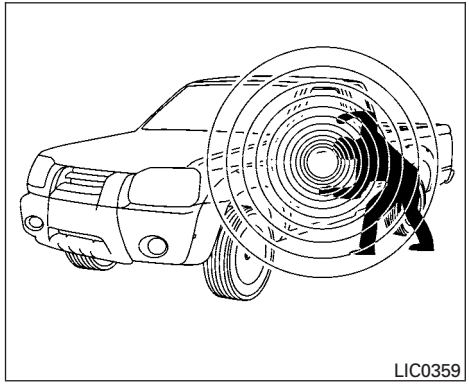
Key reminder chime

A chime sounds if the driver's door is opened while the key is left in the ignition switch. Remove the key and take it with you when leaving the vehicle.

Light reminder chime

With the ignition switch placed in the OFF position, a chime sounds when the driver's door is opened if the headlights or parking lights are on.

Turn the headlight control switch off before leaving the vehicle.


LIC0359

Your vehicle may have two types of security systems:

- Vehicle security system (if so equipped)
- NISSAN Vehicle Immobilizer System (if so equipped)

VEHICLE SECURITY SYSTEM (if so equipped)

The vehicle security system provides visual and audible alarm signals if someone opens the doors when the system is armed. It is not, however, a motion detection-type system that activates when a vehicle is moved or when a vibration occurs.

The system helps deter vehicle theft but cannot prevent it, nor can it prevent the theft of interior or exterior vehicle components in all situations. Always secure your vehicle even if parking for a brief period. Never leave your keys in the ignition, and always lock the vehicle when unattended. Be aware of your surroundings, and park in secure, well-lit areas whenever possible.

Many devices offering additional protection, such as component locks, identification markers, and tracking systems, are available at auto supply stores and specialty shops. Your NISSAN dealer may also offer such equipment. Check with your insurance company to see if you may be eligible for discounts for various theft protection features.

How to arm the vehicle security system

1. Close all windows. **(The system can be armed even if the windows are open.)**
2. Remove the key from the ignition switch.
3. Close all doors. Lock all doors. The doors can be locked with the key, power door lock switch (if the door is opened, locked and then closed), or with the key fob.

Information Provided by: DEALER E-PROCESS

Key fob operation:

- Push the button on the key fob. All doors lock. The hazard lights flash twice and the horn beeps once to indicate all doors are locked.
- When the button is pushed with all doors locked, the hazard lights flash twice and the horn beeps once as a reminder that the doors are already locked.

The horn may or may not beep. For additional information, refer to “Silencing the horn beep feature” in the “Pre-driving checks and adjustments” section of this manual.

4. Confirm that the indicator light comes on. The light stays on for about 30 seconds. The vehicle security system is now pre-armed. After about 30 seconds the vehicle security system automatically shifts into the armed phase. The light begins to flash once every 3 seconds. If, during the 30-second pre-arm time period, the driver’s door is unlocked by the key or the key fob, or the ignition switch is placed in ACC or ON position, the system will not arm.

- **If the key is turned slowly when locking the driver’s door, the system may not arm. Furthermore, if the key is turned beyond the vertical position toward the unlock position the system may be disarmed when the key is removed. If the indicator light fails to glow for a period of time, unlock the door once and lock it again.**
- **Even when the driver and/or passengers are in the vehicle, the system will arm with all doors closed and locked with the ignition switch placed in the OFF position.**

Vehicle security system activation

The vehicle security system will give the following alarm:

- The headlights blink and the horn sounds intermittently.
- The alarm automatically turns off after a period of time. However, the alarm reactivates if the vehicle is tampered with again. The alarm can be shut off by unlocking the driver’s door with the key or by pressing the button on the key fob.

The alarm is activated by:

- Opening a door without using the key or key fob (even if the door is unlocked by using the inside lock knob or the power door lock switch).

How to stop an activated alarm

The alarm stops only by unlocking the driver’s door with the key or by pressing the button on the key fob.

NISSAN VEHICLE IMMOBILIZER SYSTEM (if so equipped)

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of a registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position, and wait approximately 10 seconds.

Information Provided by: DEALER E-PROCESS

3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.

FCC Notice:

For USA:

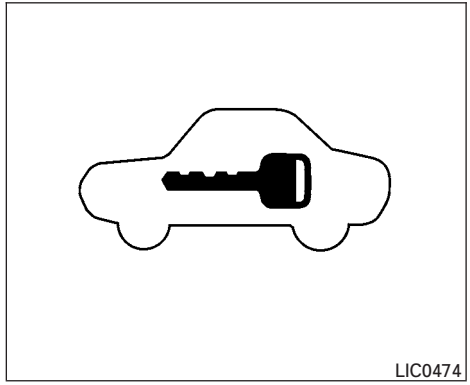
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.


LIC0474

Security indicator light

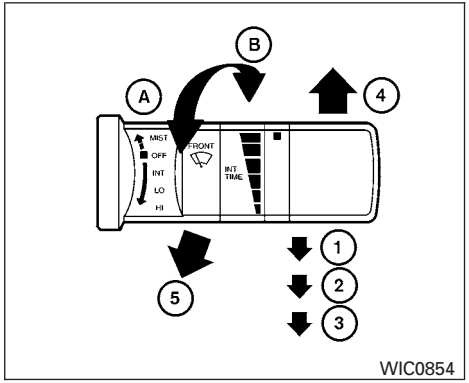
The security indicator light blinks whenever the ignition switch is placed in the LOCK, OFF or ACC position. This function indicates the NISSAN Vehicle Immobilizer System is operational.

If the NISSAN Vehicle Immobilizer System is malfunctioning, the light will remain on while the ignition switch is placed in the ON position.

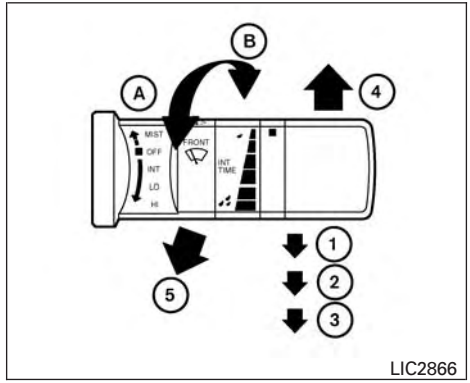
If the light still remains on and/or the engine will not start, see a NISSAN dealer for NISSAN Vehicle Immobilizer System service as soon as possible. Please bring all registered keys that you have when visiting your NISSAN dealer for service.

Information Provided by: DEALER E-PROCESS

WINDSHIELD WIPER AND WASHER SWITCH



Type A (if so equipped)



Type B (if so equipped)

SWITCH OPERATION

The windshield wiper and washer operates when the ignition switch is in the ON position.

Push the lever down to operate the wiper at the following speed:

① Intermittent (INT) — intermittent operation can be adjusted by turning the knob toward Ⓐ (Slower) or Ⓑ (Faster)

② Low (LO) — continuous low speed operation

③ High (HI) — continuous high speed operation

Push the lever up ④ to have one sweep operation (MIST) of the wiper.

Pull the lever toward you ⑤ to operate the washer. The wiper will also operate several times.

⚠ WARNING

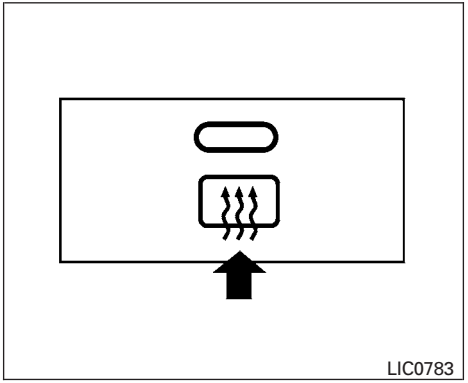
In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm the windshield with the defroster before you wash the windshield.

⚠ CAUTION

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**

Information Provided by: DEALER E-PROCESS

REAR WINDOW OR OUTSIDE MIRROR DEFROSTER SWITCH (if so equipped)

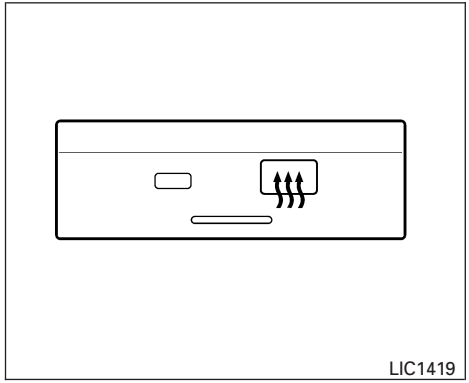


Type A (if so equipped)

To defrost the rear window glass (if so equipped), start the engine and push the rear window defroster switch on. The rear window defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

To defrost the outside mirrors (if so equipped), start the engine and push the rear window defroster switch on. The rear window defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

The rear window defroster automatically turns off after approximately 15 minutes.

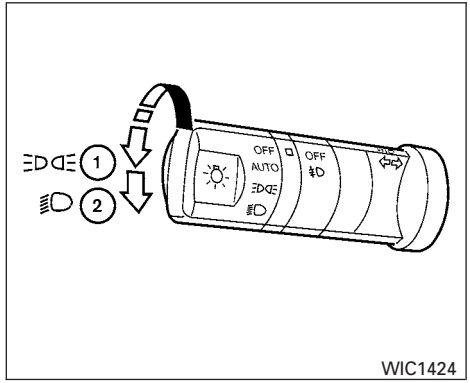


Type B (if so equipped)

⚠CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defroster.

HEADLIGHT AND TURN SIGNAL SWITCH



Type A (if so equipped)

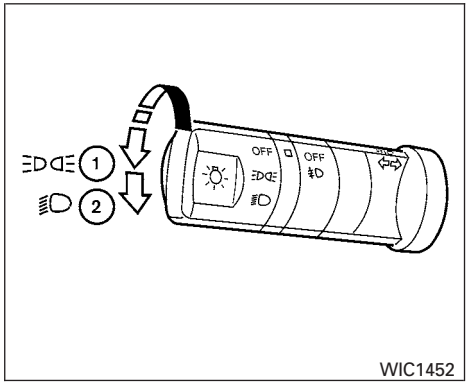
HEADLIGHT CONTROL SWITCH

Lighting

① When turning the switch to the position, the front parking, tail, license plate and instrument panel lights come on.

② When turning the switch to the position, the headlights come on and all the other lights remain on.

Information Provided by: DEALER E-PROCESS

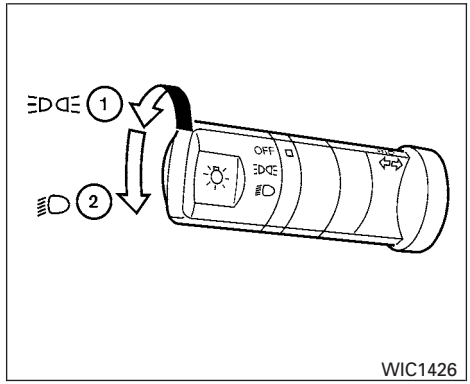


WIC1452

Type B (if so equipped)

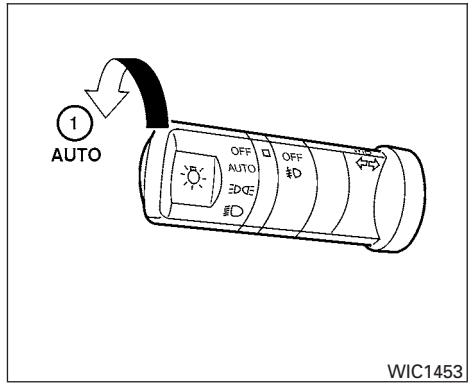
⚠CAUTION

Use the headlights with the engine running to avoid discharging the vehicle battery.



WIC1426

Type C (if so equipped)



WIC1453

Autolight system (if so equipped)

The autolight system allows the headlights to be set so they turn on and off automatically. The autolight system can:

- Turn on the headlights, front parking, tail, license plate and instrument panel lights automatically when it is dark.
- Turn off all the lights when it is light.
- Keep all the lights on for a period of time after you turn the key to OFF and all doors are closed.

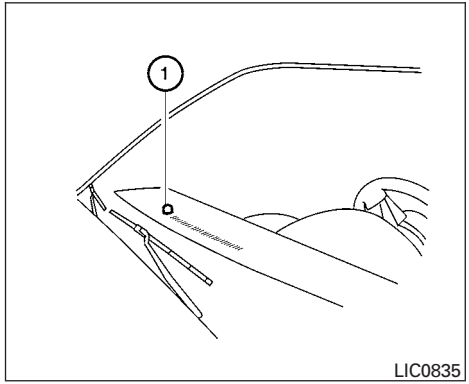
Information Provided by:
DEALER E-PROCESS

To turn on the autolight system:

1. Turn the headlight switch to the AUTO position ①.
2. Turn the ignition switch to ON.
3. The autolight system automatically turns the headlights on and off.

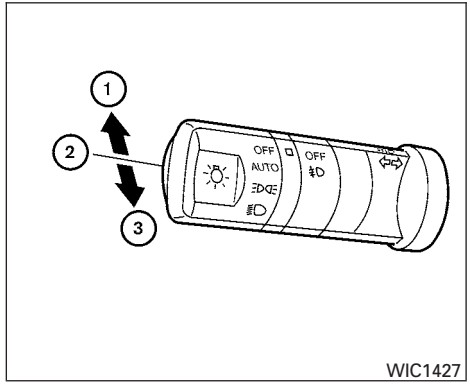
Initially, if the ignition switch is turned OFF and a door is opened and left open, the headlights remain ON for a period of time. If another door is opened while the headlights are on, then the timer is reset.

To turn the autolight system off, turn the switch to the OFF, ≡D≡ , or ≡O position.



LIC0835

Be sure you do not put anything on top of the autolight sensor ① located in the top side of the instrument panel. The autolight sensor controls the autolight; if it is covered, the autolight sensor reacts as if it is dark out and the headlights will illuminate. If this occurs while parked with the engine off and the switch in the ON position, your vehicle's battery could become discharged.



WIC1427

Headlight beam select

① To select the high beam function, push the lever forward. The high beam lights come on and the ≡O light illuminates.

② Pull the lever back to select the low beam.

③ Pulling and releasing the lever flashes the headlight high beams on and off.

Battery saver system

If the ignition switch is placed in the OFF position while the headlight switch is in the ≡D≡ or ≡O position, the headlights will turn off after a period of time.

Information Provided by:
DEALER E-PROCESS

After the headlights automatically turn off with the headlight switch in the ≡D◁≡ or 🚗 position, the headlights will illuminate again if the headlight switch is moved to the OFF position and then turned to the ≡D◁≡ or 🚗 position.

⚠CAUTION

Even though the battery saver feature automatically turns off the headlights after a period of time, you should turn the headlight switch to the OFF position when the engine is not running to avoid discharging the vehicle battery.

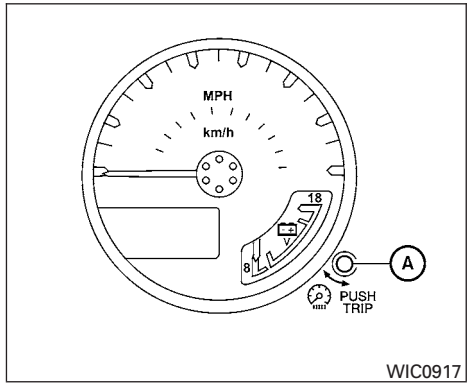
DAYTIME RUNNING LIGHT SYSTEM (Canada only)

The daytime running lights automatically illuminate when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the ≡D◁≡ position. Turn the headlight switch to the 🚗 position for full illumination when driving at night.

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate when the parking brake is released. The daytime running lights will remain on until the ignition switch is placed in the OFF position.

⚠WARNING

When the daytime running light system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

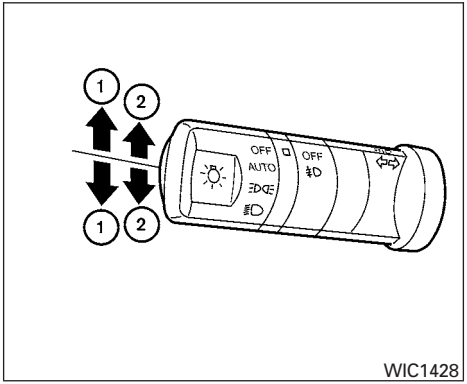


INSTRUMENT BRIGHTNESS CONTROL

The instrument brightness control operates when the headlight control switch is in the AUTO (if so equipped), ≡D◁≡ or 🚗 position.

Turn the control Ⓐ to adjust the brightness of the instrument panel lights when driving at night.

Information Provided by:
DEALER E-PROCESS



WIC1428

TURN SIGNAL SWITCH

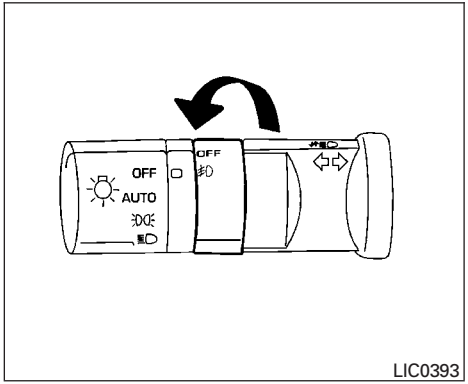
Turn signal

① Move the lever up or down to signal the turning direction. When the turn is completed, the turn signal cancels automatically.

Lane change signal

② Move the lever up or down until the turn signal begins to flash, but the lever does not latch, to signal a lane change. Hold the lever until the lane change is completed.
Move the lever up or down until the turn signal begins to flash, but the lever does not latch, and release the lever. The turn signal will automatically flash three times.

Choose the appropriate method to signal a lane change based on road and traffic conditions.



LIC0393

FOG LIGHT SWITCH (if so equipped)

To turn the fog lights on, turn the headlight switch to the position, then turn the fog light switch to the position.

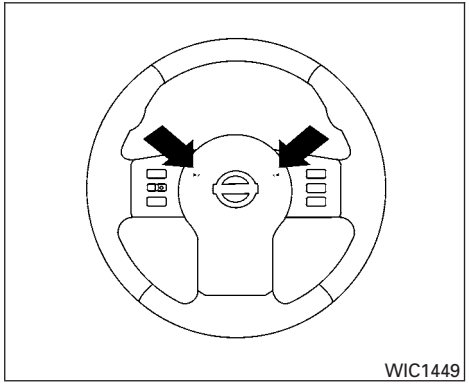
To turn the fog lights on with the headlight switch in the AUTO position (if so equipped), the headlights must be on, then turn the fog light switch to the position.

To turn the fog lights off, turn the fog light switch to the OFF position.

The headlights must be on and the low beams selected for the fog lights to operate. The fog lights automatically turn off when the high beam headlights are selected.

Information Provided by:
DEALER E-PROCESS

HORN

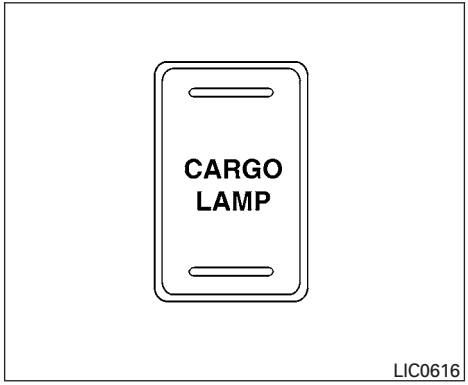

WIC1449

To sound the horn, push the area between the horn icons on the steering wheel.

⚠WARNING

Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

CARGO LAMP SWITCH



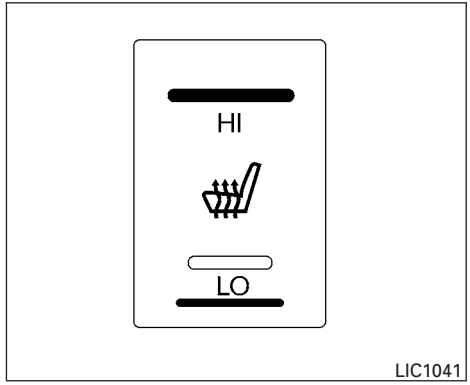
LIC0616

To turn on the cargo lamp, push the switch down to the ON position.

⚠CAUTION

Be sure to turn the light switch to the OFF position when you leave the vehicle for extended periods of time, otherwise the battery will go dead.

HEATED SEATS (if so equipped)



LIC1041

The front seats are warmed by built-in heaters.

1. Start the engine.
2. Push the LO or HI position of the switch, as desired, depending on the temperature. The indicator light in the switch will illuminate.

   The heater is controlled by a thermostat, automatically turning the heater on and off. The indicator light will remain on as long as the switch is on.
3. When the seat is warmed or before you leave the vehicle, be sure to turn the switch off.

Information Provided by:
DEALER E-PROCESS

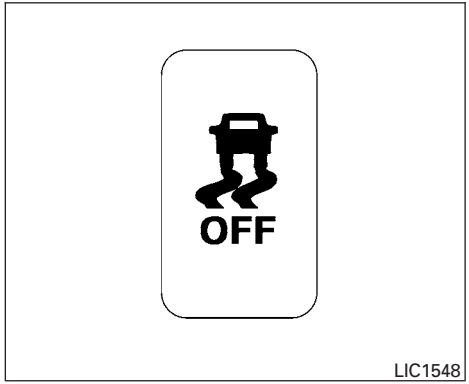
⚠WARNING

Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in body parts that contact the seat. Use of the seat heater by such people could result in serious injury.

⚠CAUTION

- **Do not use the seat heater for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use gasoline, benzine, thinner, or any similar materials.**
- **If any malfunctions are found or the heated seat does not operate, turn the switch off and have the system checked by your NISSAN dealer.**
- **The battery could run down if the seat heater is operated while the engine is not running.**

VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH



LIC1548

The vehicle should be driven with the VDC system on for most driving conditions.

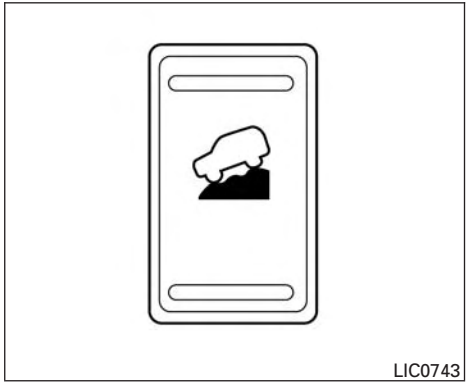
If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the VDC system, push the VDC OFF switch. The OFF indicator will come on.

Push the VDC OFF switch again or restart the engine to turn on the system. For additional information, refer to “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section of this manual.

Information Provided by: DEALER E-PROCESS

HILL DESCENT CONTROL SWITCH (if so equipped)



LIC0743

⚠ WARNING

- **Never rely solely on the hill descent control system to control vehicle speed when driving on steep downhill grades. Always drive carefully when using the hill descent control system and decelerate the vehicle speed by depressing the brake pedal if necessary. Be especially careful when driving on frozen, muddy or extremely steep downhill roads. Failure to control vehicle speed may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill descent control may not control the vehicle speed on a hill under all load or road conditions. Always be prepared to depress the brake pedal to control vehicle speed. Failure to do so may result in a collision or serious personal injury.**

⚠ CAUTION

When the hill descent control system operates continuously for a long time, the temperature of the brake pads may increase and the hill descent control system may be temporarily disabled (the indicator light will blink). If the indicator light does not come on continuously after blinking, stop using the system.

The hill descent control system is designed to reduce driver workload when going down steep hills. The hill descent control system helps to control vehicle speed so the driver can concentrate on steering the vehicle.

To activate the hill descent control system:

- the 4WD switch must be in the 4L position and the vehicle speed must be under 15 MPH (25 km/h) or
- the 4WD switch must be in the 4H position and the vehicle speed must be under 21 MPH (35 km/h), and
- the hill descent control system switch must be ON.

The hill descent control system on indicator light will come on when the system is activated. Also, the stop/tail lights illuminate while the hill descent control system applies the brakes to control vehicle speed.

If the accelerator or brake pedal is depressed while the hill descent control system is on, the system will stop operating temporarily. As soon as the accelerator or brake pedal is released, the hill descent control system begins to function again if the hill descent control operating conditions are fulfilled.

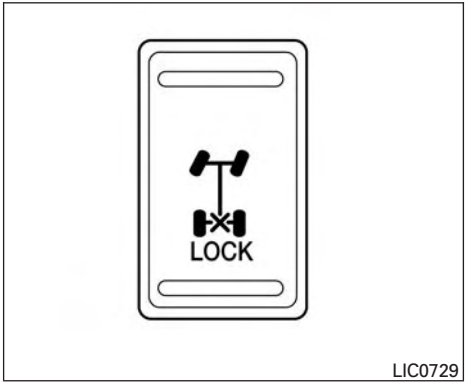
The hill descent control system on indicator light blinks if the switch is on and all conditions for system activation are not met or if the system becomes disengaged for any reason.

To turn off the hill descent control system, push the switch to the OFF position.

For additional information, refer to “Hill descent control system on indicator light” in this section and “Hill descent control system” in the “Starting and driving” section of this manual.

Information Provided by: DEALER E-PROCESS

ELECTRONIC LOCKING REAR DIFFERENTIAL (E-Lock) SYSTEM SWITCH (if so equipped)



The Electronic Locking Rear Differential (E-Lock) system can help provide added traction if the vehicle is stuck or becoming stuck.

To activate the E-Lock system:

- the 4WD switch must be in the 4LO position (4-wheel drive vehicles),
- the vehicle must be stopped or moving at 4 MPH (7 km/h) or less, and
- the E-Lock system switch must be turned ON.

When the E-Lock switch is turned ON, the indicator light will flash until the system engages. However, if all operation conditions listed above are not met or the system becomes disengaged, the indicator light will continue to flash.

The Anti-Lock Brake (ABS) system is disabled and the ABS light illuminates when the E-Lock system is ON. Also, the Vehicle Dynamic Control (VDC) system is disabled and the VDC light illuminates when the E-Lock system is ON.

For additional information, refer to “Electronic locking rear differential (E-Lock) system” in the “Starting and driving” section of this manual for further explanation and system limitations.

⚠ WARNING

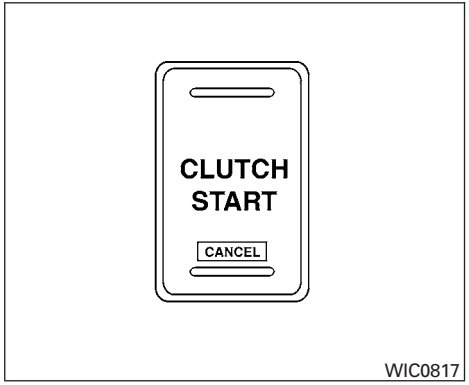
- **Never leave the E-Lock system ON when driving on paved or hard-surfaced roads. Turning the vehicle may result in the rear wheels slipping and result in an accident and personal injury. After using the E-Lock system to free the vehicle, turn the system OFF.**
- **Use the E-Lock system only when freeing a stuck vehicle. Try the 4LO position before using the E-Lock system. Never use the E-Lock system on a slippery road surface such as snow or ice surface. Using the E-Lock system when driving in these road conditions may cause unexpected movement of the vehicle during engine braking, accelerating or turning, which may result in an accident and serious personal injury.**

⚠ CAUTION

- **After using the E-Lock system, turn the switch OFF to prevent possible damage to driveline components from extended use.**
- **Do not drive over 12 MPH (20 km/h) when the system is engaged. Doing so could result in possible damage to the driveline.**
- **Do not turn on the E-lock system while the tires are spinning. Doing so could damage drivetrain components.**

Information Provided by: DEALER E-PROCESS

CLUTCH INTERLOCK (clutch start) SWITCH (if so equipped)



WIC0817

⚠WARNING

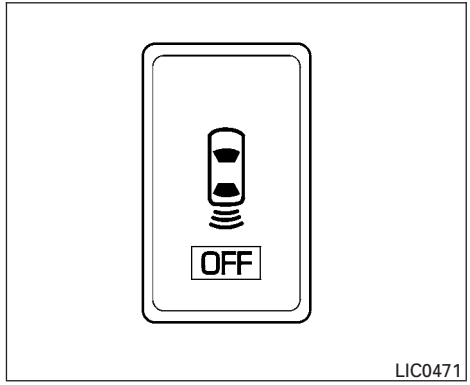
Pay special attention to your surroundings when using the clutch interlock switch. The vehicle will move forward or backward according to the gear selected.

The clutch interlock (clutch start) switch allows for starting the engine without depressing the clutch pedal. This feature helps you restart the engine if it stops under difficult conditions. (For example, the engine stops on a steep hill and a slight movement forward or backward might be dangerous.)

To use the clutch interlock switch:

1. Set the parking brake.
2. Depress the brake pedal with your right foot.
3. Place your left foot on the brake pedal and release the parking brake.
4. Turn the ignition switch to the ON position.
5. Press and release the clutch interlock switch. The CANCEL light on the switch will illuminate.
6. Turn the ignition to the START position to start the engine and, at the same time, depress the accelerator pedal with your right foot. As the vehicle begins to move, take your left foot off the brake. Once the engine has started, the clutch interlock switch CANCEL light shuts off. Do not use the interlock switch to start the engine under normal driving conditions.

REAR SONAR SYSTEM OFF SWITCH (if so equipped)



LIC0471

⚠WARNING

The rear sonar system is a convenience but it is not a substitute for proper backing. Always turn and check that it is safe to do so before backing up. Always back up slowly.

The rear sonar system (if so equipped) is active when the ignition switch is placed in the ON position and the shift lever is in R (Reverse).

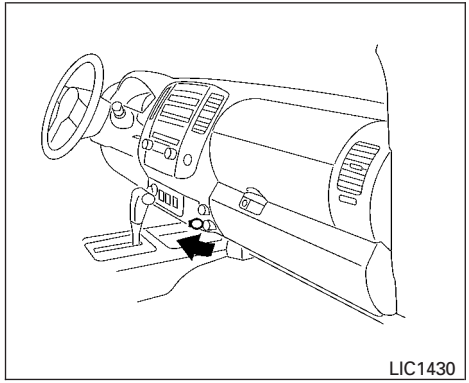
When sensors detect obstacles within 6 ft (1.8 m) of the rear bumper, a beeping tone is emitted.

Information Provided by:
DEALER E-PROCESS

The rear sonar system can be disabled by pushing the OFF switch. When the system is disabled, the indicator light on the switch will illuminate.

The system will automatically reset the next time the ignition switch is placed in the ON position.

For additional information, refer to “Rear sonar system (RSS) (if so equipped)” in the “Starting and driving” section in this manual.

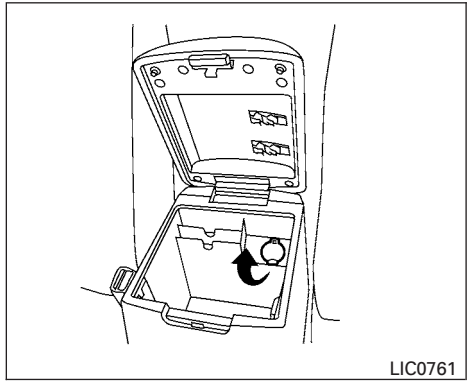


Front row

The power outlets are for powering electrical accessories such as cellular telephones. They are rated at 12 volt, 120W (10A) maximum.

The power outlets are powered only when the ignition switch is in the ACC or ON position.

Open the cap to use a power outlet.



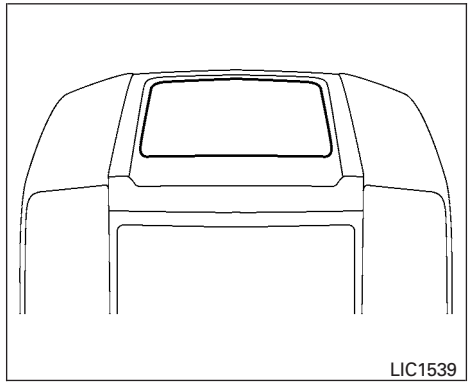
Center console

⚠CAUTION

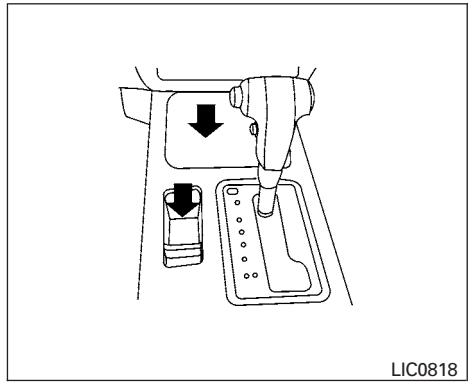
- **The outlet and plug may be hot during or immediately after use.**
- **Only certain power outlets are designed for use with a cigarette lighter unit. Do not use any other power outlet for an accessory lighter. See your NISSAN dealer for additional information.**
- **Do not use with accessories that exceed a 12 volt, 120W (10A) power draw.**
- **Do not use double adapters or more than one electrical accessory.**

Information Provided by: DEALER E-PROCESS

- **Use power outlets with the engine running to avoid discharging the vehicle battery.**
- **Avoid using power outlets when the air conditioner, headlights or rear window defroster is on.**
- **Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned OFF.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may open.**
- **When not in use, be sure to close the cap. Do not allow water or any other liquids to contact the outlet.**



Top center tray



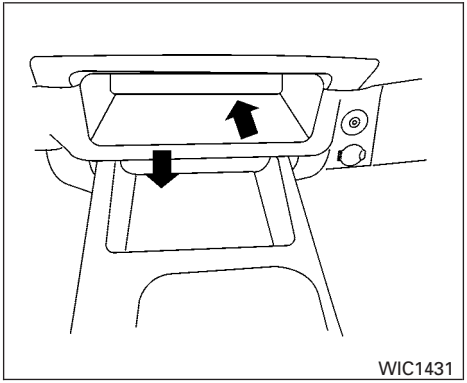
A/T model

STORAGE TRAYS

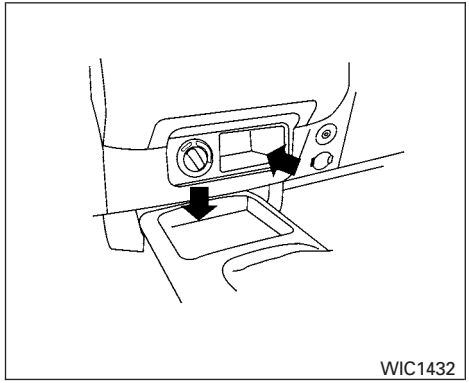
⚠WARNING

Do not place sharp objects in the trays to help prevent injury in an accident or sudden stop.

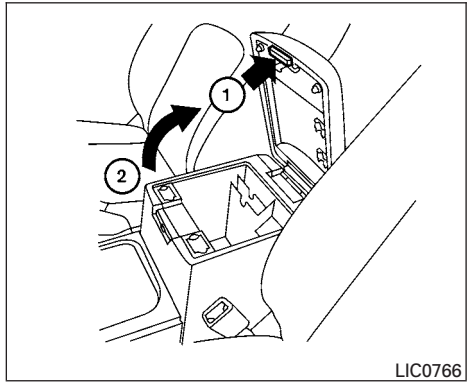
Information Provided by:
DEALER E-PROCESS



M/T model — Type A (if so equipped)



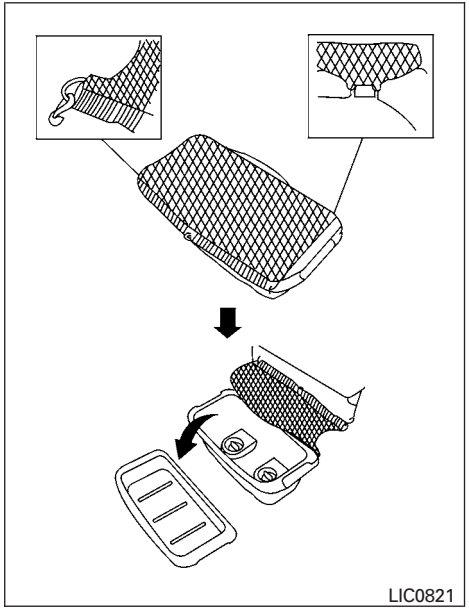
M/T model — Type B (if so equipped)



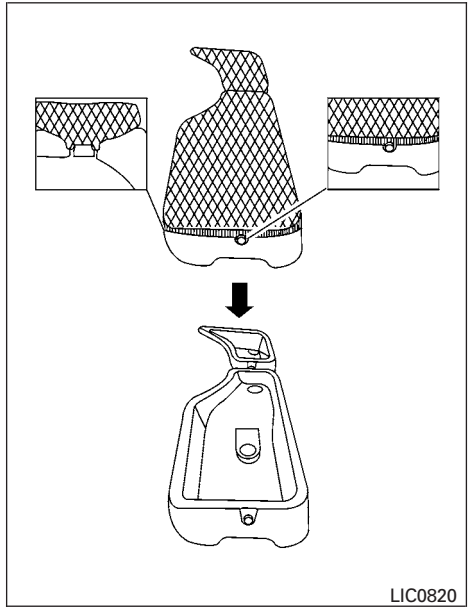
CONSOLE BOX

Pull up on the lever ① to open the console box lid ②.

Information Provided by:
DEALER E-PROCESS



Rear row under-seat storage bin (King Cab model)



Rear row under-seat storage bin (Crew Cab model)

UNDER-SEAT STORAGE BINS

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **The cargo restrained in the under-seat storage bins must not exceed the weight limits listed below or the bins may not stay secured. In a sudden stop or collision, the unsecured bins could cause personal injury.**
  King Cab model: 16 lb (7.25 kg)
  Crew Cab model
  Driver's side: 16 lb (7.25 kg)
  Passenger's side: 25 lb (11.33 kg)
- **If the under-seat storage bins are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.**

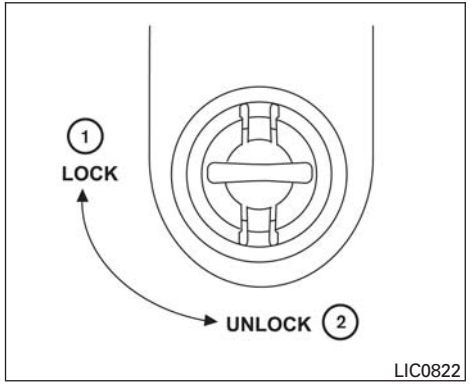
Information Provided by:
DEALER E-PROCESS

- **Do not place sharp objects in the under-seat storage bins. Such objects may become dangerous projectiles and cause injury when the vehicle is moving or if the vehicle is involved in a collision.**

To access the under-seat storage bins:

For King Cab model, lift up the jump seat. Refer to “Jump seat” in the “Safety—Seats, seat belts and supplemental restraint system” section of this manual.

For Crew Cab model, lift up the rear bench seat. Refer to “Folding the rear bench seat down” in the “Safety—Seats, seat belts and supplemental restraint system” section of this manual.

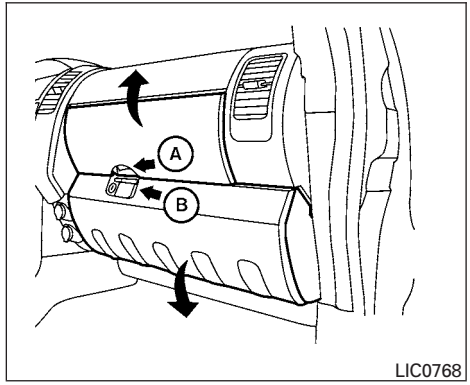


To remove the under-seat storage bins:

1. Remove the storage net.
2. Turn the knobs to the UNLOCK position ②.
3. Remove the tray by lifting it out of the storage bin (King Cab model).

To install the under-seat storage bins:

1. Position the under-seat storage bin so the holes line up with the holes in the floorboard.
2. Insert the knobs and turn them to the LOCK position ①.



GLOVE BOX

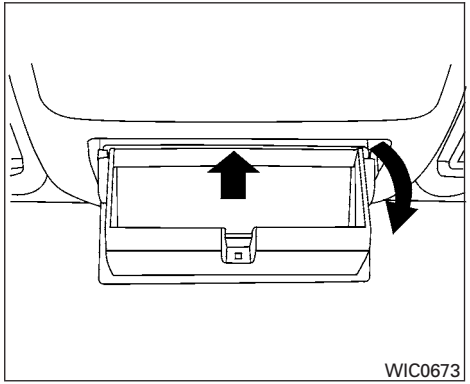
To open the top portion of the glove box, push the latch Ⓐ up and raise the lid.

To open the lower portion of the glove box, pull the handle Ⓑ down and lower the lid.

⚠WARNING

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

Information Provided by: DEALER E-PROCESS



SUNGLASSES HOLDER (if so equipped)

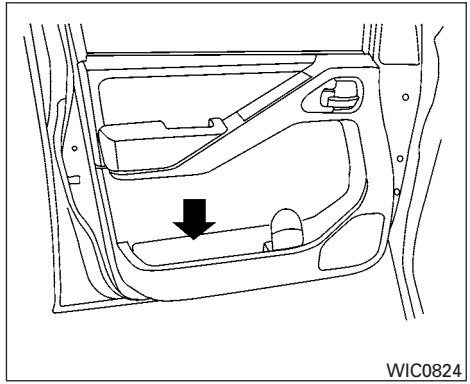
To open the sunglasses holder, push and release.

⚠ WARNING

- **Keep the sunglasses holder closed while driving to prevent an accident.**

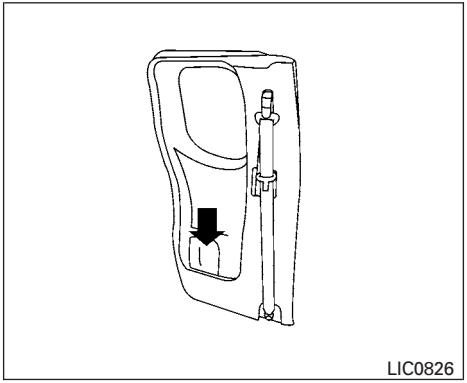
⚠ CAUTION

- **Do not leave sunglasses in the sunglasses holder while parking in direct sunlight. The heat may damage the sunglasses.**
- **Do not use for anything other than sunglasses.**

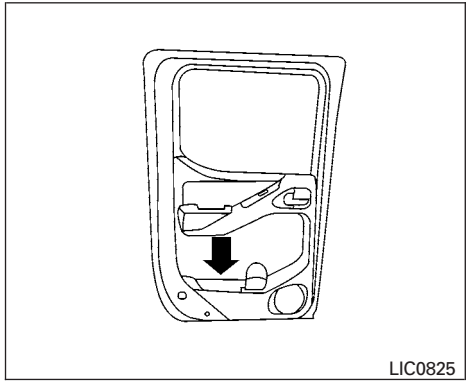


MAP POCKETS

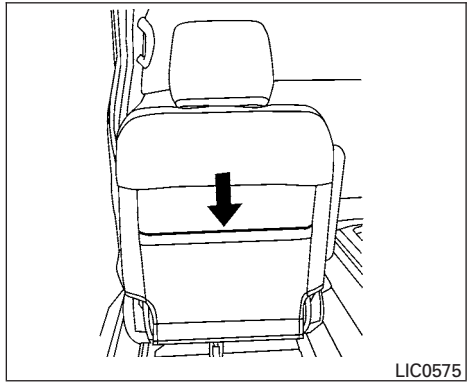
Information Provided by:
DEALER E-PROCESS



Type A (if so equipped)



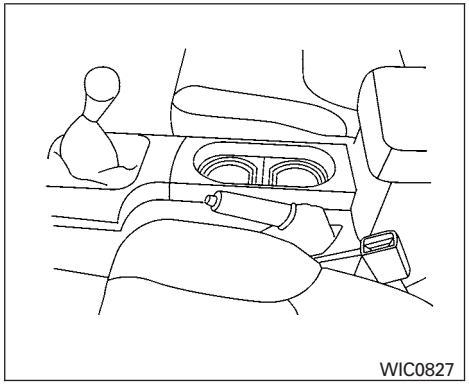
Type B (if so equipped)



SEAT POCKET (if so equipped)

A pocket is located on the back of the driver's seat.

Information Provided by:
DEALER E-PROCESS



Front

CUP HOLDERS

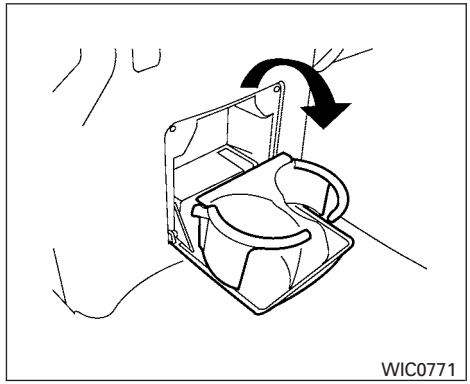
The front cup holders have adapters that can be removed to accommodate larger cups.

⚠ WARNING

The cup holder should not be used while driving so full attention may be given to vehicle operation.

⚠ CAUTION

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**

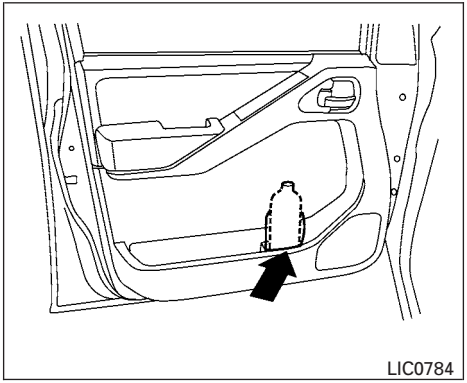


Rear seat (rear of front console)

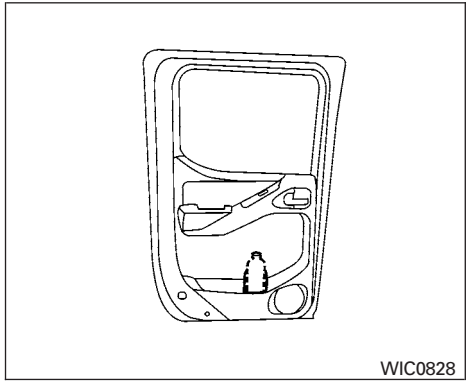
To open the rear row cup holders (rear of the front console), lower the lid. To close, raise the lid. If stepped on, the cup holder is designed to snap loose from the console. To re-install, close the cup holder assembly and push it back into the console opening.

To fold the rear seat back, first close the cup holder.

Information Provided by:
DEALER E-PROCESS



Bottle holder (front row)

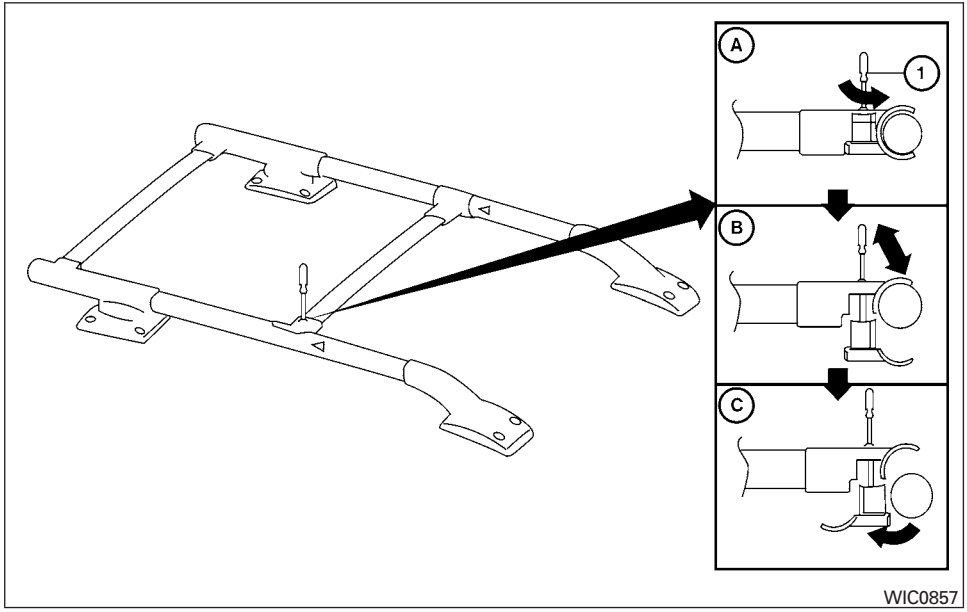


Bottle holder (Rear seat, Crew Cab)

⚠ CAUTION

- **Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during sudden braking or an accident.**
- **Do not use bottle holder for open liquid containers.**

Information Provided by:
DEALER E-PROCESS



ROOF RACK (if so equipped)

⚠ WARNING

- **Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the roof rack.**
- **Heavy loading of the roof rack has the potential to affect the vehicle stability and handling during sudden or abnormal handling maneuvers.**
- **Roof rack load should be evenly distributed.**
- **Do not exceed maximum roof rack load weight capacity.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**

⚠ CAUTION

Use care when placing or removing items from the roof rack. If you cannot comfortably lift the items onto the roof rack from the ground, use a ladder or stool.

Information Provided by:
DEALER E-PROCESS

Always evenly distribute the cargo on the tubular roof rack. **The maximum total load is 125 lb (56 kg) evenly distributed.** Be careful that your vehicle does not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Ratings (GAWR front and rear). The GVWR and GAWR are located on the F.M.V.S.S. label (located on the driver's side door jamb pillar). For additional information regarding GVWR and GAWR, refer to "Vehicle loading information" in the "Technical and consumer information" section of this manual.

The front crossbar can be adjusted or removed. Use the TORX® driver provided in the tool kit to loosen both crossbar adjusting screws.

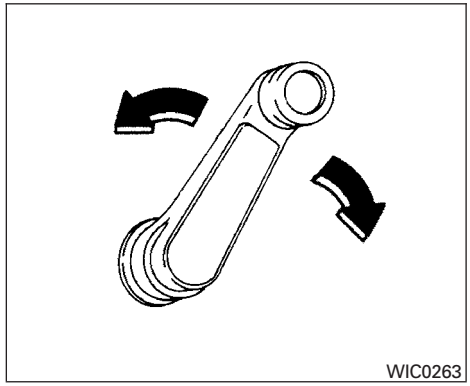
To adjust:

1. Loosen the adjusting screws with the TORX® driver ① by turning counterclockwise Ⓐ.
2. When the clamp is loosened, move the crossbar so the cargo can be positioned on the crossbar Ⓑ.
3. Tighten the crossbar adjusting screws with the TORX® driver by turning clockwise.
4. Secure the cargo with rope.
5. Always check the tightness of the crossbar adjusting screws.

To remove:

1. Loosen the adjusting screws with the TORX® driver ① by turning counterclockwise Ⓐ.
2. Rotate the clamps Ⓒ.
3. Remove the crossbar.
4. Reverse to install.
5. Always check the tightness of the crossbar adjusting screws.

If you hear wind noise coming from the roof rack while driving, adjust the roof rack crossbar to the neutral position.


WIC0263

MANUAL WINDOWS (if so equipped)

The side windows can be opened or closed by turning the hand crank on each door.

POWER WINDOWS (if so equipped)

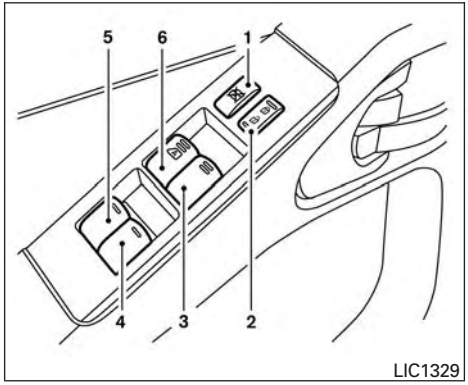
⚠WARNING

- **Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**

Information Provided by: DEALER E-PROCESS

- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in a window. Unattended children could become involved in serious accidents.**

The power windows operate when the ignition switch is placed in the ON position, or for a period of time after the ignition switch is placed in the OFF position. If the driver's or passenger's door is opened during this period of time, the power to the windows is canceled.



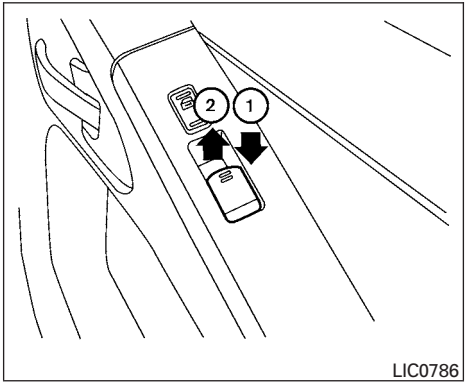
1. Window lock button
2. Power door lock switch
3. Front passenger side window switch
4. Right rear passenger window switch (Crew Cab models only)
5. Left rear passenger window switch (Crew Cab models only)
6. Driver's side automatic switch

Driver's side power window switch

The driver's side control panel is equipped with switches to open or close the front and rear passenger windows.

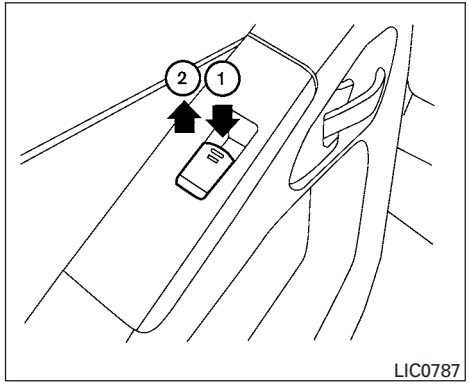
To open a window, push the switch and hold it down. To close a window, pull the switch and hold it up. To stop the opening or closing function at any time, simply release the switch.

Information Provided by:
DEALER E-PROCESS



Front passenger's power window switch

The passenger's window switch operates only the corresponding passenger's window. To open the window, push the switch and hold it down ①. To close the window, pull the switch up ②.

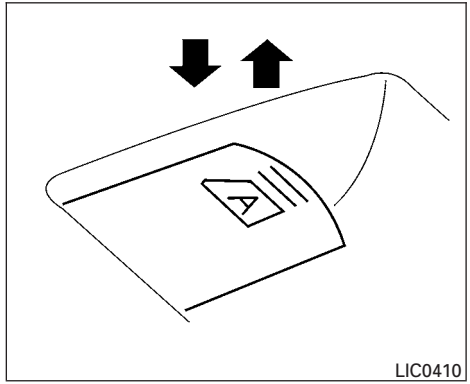


Rear power window switch (Crew Cab models only)

The rear power window switches open or close only the corresponding passenger window. To open the window, push the switch and hold it down ①. To close the window, push the switch up ②.

Locking passengers' windows

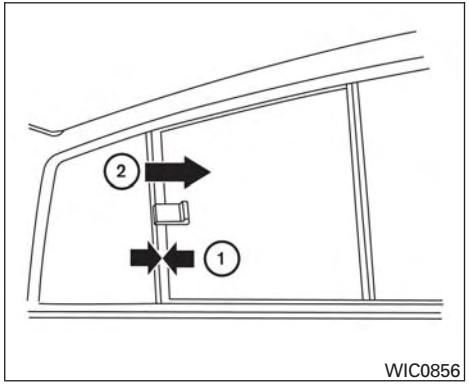
When the window lock switch is depressed, only the driver's side window can be opened or closed. Push it again to cancel the window lock function.



Automatic operation

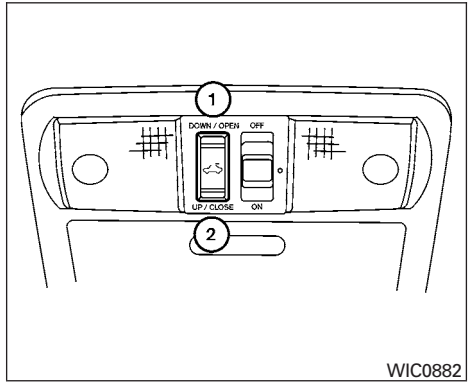
To fully open a window equipped with automatic operation, press the window switch down to the second detent and release it; it need not be held. The window automatically opens all the way. To stop the window, lift the switch up while the window is opening.

Information Provided by:
DEALER E-PROCESS



REAR SLIDING WINDOW (if so equipped)

Squeeze the handles of the lever ①, then slide the window open ②.



POWER MOONROOF

The moonroof will only operate when the ignition switch is in the ON position. The power moonroof is operational for about 45 seconds, even if the ignition switch is turned to the ACC or OFF position. If the driver's door or the front passenger's door is opened during this period of about 45 seconds, power to the moonroof is canceled.

Sliding the moonroof

To fully open the moonroof, push the switch toward DOWN/OPEN ①.

To fully close the moonroof, push the switch toward UP/CLOSE ②.

To open or close the moonroof part way, push the switch in any direction while the moonroof is sliding to stop it in the desired position.

Tilting the moonroof

Close the moonroof by pushing the switch toward UP/CLOSE ②. Release the switch, then push the UP/CLOSE switch again to tilt the moonroof up.

To tilt the moonroof down, push the switch toward DOWN/OPEN ①.

Auto-reverse function (when closing or tilting down the moonroof)

The auto-reverse function can be activated when the moonroof is closed or tilted down by automatic operation when the ignition switch is placed in the ON position or for a period of time after the ignition switch is placed in the OFF position.

Depending on the environment or driving conditions, the auto-reverse function may be activated if an impact or load similar to something being caught in the moonroof occurs.

Information Provided by:
DEALER E-PROCESS

⚠WARNING

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the moonroof.

When closing

If the control unit detects something caught in the moonroof as it moves to the front, the moonroof will immediately open backward.

When tilting down

If the control unit detects something caught in the moonroof as it tilts down, the moonroof will immediately tilt up.

If the auto-reverse function malfunctions and repeats opening or tilting up the moonroof, keep pushing the tilt down switch within 5 seconds after it happens; the moonroof will fully close gradually. Make sure nothing is caught in the moonroof.

⚠WARNING

- **In an accident you could be thrown from the vehicle through an open moonroof. Always use seat belts and child restraints.**
- **Do not allow anyone to stand up or extend any portion of their body out of the moonroof opening while the vehicle is in motion or while the moonroof is closing.**

⚠CAUTION

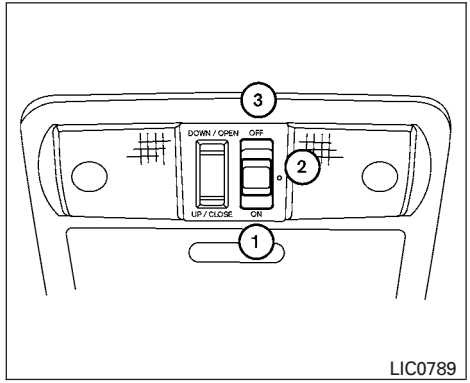
- **Remove water drops, snow, ice or sand from the moonroof before opening.**
- **Do not place heavy objects on the moonroof or surrounding area.**

Sunshade

Open and close the sunshade by sliding it forward or backward.

If the moonroof does not close

Have your NISSAN dealer check and repair the moonroof.

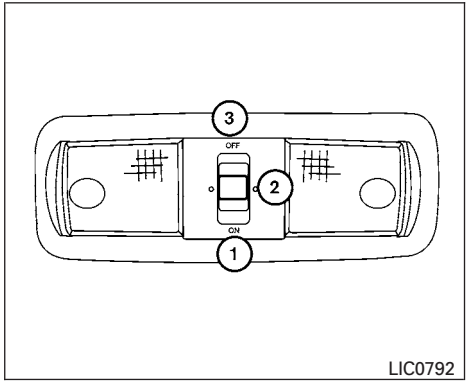


Type A (if so equipped)

The interior lights have a three-position switch and operate regardless of ignition switch position.

When the switch is in the ON position ①, the interior lights illuminate, regardless of door position. The lights will go off after a period of time unless the ignition switch is in the ON position.

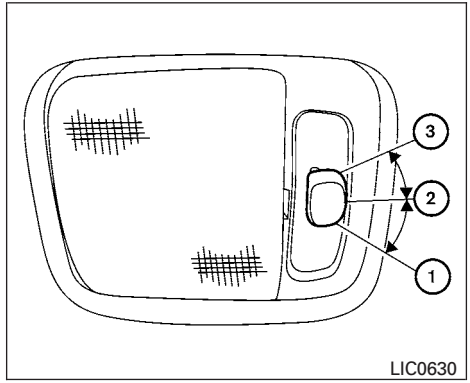
Information Provided by: DEALER E-PROCESS



Type B (if so equipped)

When the switch is in the O (DOOR) position ②, the interior lights will stay on for a period of time when:

- The doors are unlocked by the key fob, a key or the power door lock switch while all doors are closed and the ignition switch is in the OFF position.
- The driver's door is opened and then closed while the key is removed from the ignition switch.
- The key is removed from the ignition switch while all doors are closed.



Type C (if so equipped)

The lights will turn off while the timer is activated when:

- The driver's door is locked by the key fob, a key, or the power door lock switch.
- The ignition switch is turned ON.

The lights will turn off automatically after a period of time while doors are open to prevent the battery from becoming discharged.

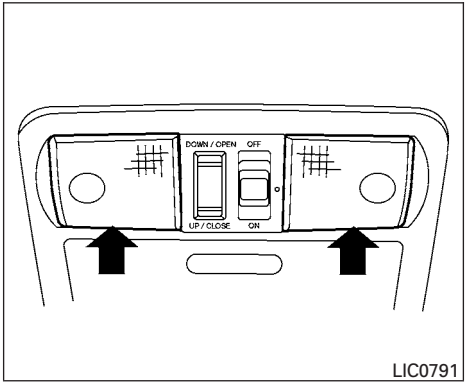
When the switch is in the OFF position ③, the interior lights do not illuminate, regardless of door position.

⚠ CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

Information Provided by:
DEALER E-PROCESS

MAP LIGHTS (if so equipped)



To turn the map lights on, press the lenses. To turn them off, press the lenses of the lights again.

⚠CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

HOMELINK® UNIVERSAL TRANSCEIVER (if so equipped)

The HomeLink® Universal Transceiver provides a convenient way to consolidate the functions of up to three individual hand-held transmitters into one built-in device.

HomeLink® Universal Transceiver:

- Will operate most Radio Frequency devices such as garage doors, gates, home and office lighting, entry door locks and security systems.
- Is powered by your vehicle's battery. No separate batteries are required. If the vehicle's battery is discharged or is disconnected, HomeLink® will retain all programming.

When the HomeLink® Universal Transceiver is programmed, retain the original transmitter for future programming procedures (Example: new vehicle purchases). Upon sale of the vehicle, the programmed HomeLink® Universal Transceiver buttons should be erased for security purposes. For additional information, refer to "Programming HomeLink®" in this section.

⚠WARNING

- **Do not use the HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982). A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.**
- **During the programming procedure your garage door or security gate will open and close (if the transmitter is within range). Make sure that people or objects are clear of the garage door, gate, etc. that you are programming.**
- **Your vehicle's engine should be turned off while programming the HomeLink® Universal Transceiver.**

Information Provided by: DEALER E-PROCESS

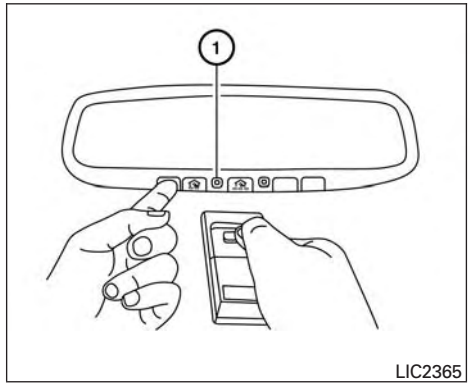
PROGRAMMING HOMELINK®

If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

NOTE:

Place the ignition switch in the ACC position when programming HomeLink®. It is also recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink® for quicker programming and accurate transmission of the radio-frequency.

1. Position the end of your hand-held transmitter 1–3 in (2–8 cm) away from the HomeLink® surface, keeping the HomeLink® indicator light ① in view.

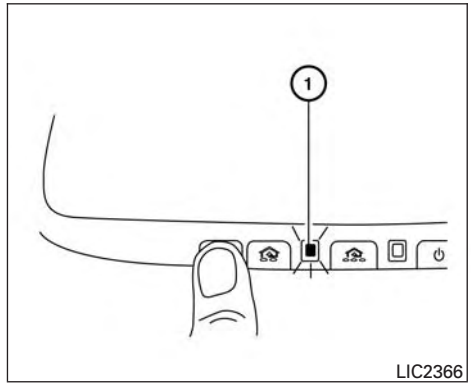


LIC2365

2. Using both hands, simultaneously press and hold the desired HomeLink® button and hand-held transmitter button. DO NOT release until the HomeLink® indicator light ① flashes slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. (The rapid flashing indicates successful programming.)

NOTE:

Some devices may require you to replace Step 2 with the cycling procedure noted in "Programming HomeLink® for Canadian customers and gate openers" in this section.



LIC2366

3. Press and hold the programmed HomeLink® button and observe the indicator light.
   - If the indicator light ① **is solid/continuous, programming is complete** and your device should activate when the HomeLink® button is pressed and released.
   - If the indicator light ① blinks **rapidly for 2 seconds and then turns to a solid/continuous light, continue with Steps 4-6** for a rolling code device. A second person may make the following steps easier. Use a ladder or other device.

Information Provided by:
DEALER E-PROCESS

Do not stand on your vehicle to perform the next steps.

4. At the receiver located on the garage door opener motor in the garage, locate the “learn” or “smart” button (the name and color of the button may vary by manufacturer but it is usually located near where the hanging antenna wire is attached to the unit). If there is difficulty locating the button, reference the garage door opener’s manual.
5. Press and release the “learn” or “smart” button.
6. Return to the vehicle and firmly press and hold the trained HomeLink® button for 2 seconds and release. Repeat the “press/hold/release” sequence up to three times to complete the training process. HomeLink® should now activate your rolling code equipped device.
7. If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

PROGRAMMING HOMELINK® FOR CANADIAN CUSTOMERS AND GATE OPENERS

Canadian radio-frequency laws require transmitter signals to “time-out” (or quit) after several seconds of transmission – which may not be long enough for HomeLink® to pick up the signal during training. Similar to this Canadian law, some U.S. gate operators are designed to “timeout” in the same manner.

If you live in Canada or you are having difficulties training a gate operator **or** garage door opener by using the “Training” procedures, **replace** “Programming HomeLink®” **Step 2** with the following:

NOTE:

When programming a garage door opener, etc., unplug the device during the “cycling” process to prevent possible damage to the garage door opener components.

1. For additional information, refer to “Programming HomeLink®” step 1 in this section.
2. Using both hands, simultaneously press and hold the desired HomeLink® button and the hand-held transmitter button. During training, your hand-held transmitter may automatically stop transmitting. Continue to press and hold the desired HomeLink® button while you press and re-press (“cycle”) your hand-held transmitter every 2 seconds until the frequency signal has been learned. The HomeLink® indicator light will flash slowly and then rapidly after several seconds upon successful training. DO NOT release until the HomeLink® indicator light flashes slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. The rapid flashing indicates successful training.
   Proceed with “Programming HomeLink®” step 3 to complete.
   If the device was unplugged during the programming procedure, remember to plug it back in when programming is completed.

OPERATING THE HOMELINK® UNIVERSAL TRANSCEIVER

The HomeLink® Universal Transceiver, after it is programmed, can be used to activate the programmed device. To operate, simply press and release the appropriate programmed HomeLink® Universal Transceiver button. The amber indicator light will illuminate while the signal is being transmitted.

For convenience, the hand-held transmitter of the device may also be used at any time.

Information Provided by:
DEALER E-PROCESS

PROGRAMMING TROUBLE-DIAGNOSIS

If the HomeLink® does not quickly learn the hand-held transmitter information:

- replace the hand-held transmitter batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the HomeLink® surface.
- press and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 1 - 3 inches (26 - 76 mm) away from the HomeLink® surface. Hold the transmitter in that position for up to 15 seconds. If HomeLink® is not programmed within that time, try holding the transmitter in another position – keeping the indicator light in view at all times.

If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

CLEARING THE PROGRAMMED INFORMATION

The following procedure clears the programmed information from both buttons. Individual buttons cannot be cleared. However, individual buttons can be reprogrammed. For additional information, refer to “Reprogramming a single HomeLink® button” in this section.

To clear all programming:

1. Press and hold the two outer HomeLink® buttons until the indicator light begins to flash in approximately 10 seconds. Do not hold for longer than 20 seconds.
2. Release both buttons.

HomeLink® is now in the programming mode and can be programmed at any time beginning with “Programming HomeLink®” - Step 1.

REPROGRAMMING A SINGLE HOMELINK® BUTTON

To reprogram a HomeLink® Universal Transceiver button, complete the following:

1. Press and hold the desired HomeLink® button. **DO NOT** release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the HomeLink® button, proceed with “Programming HomeLink®” - Step 1.

For questions or comments, contact HomeLink® at: www.homelink.com or 1–800–355–3515 (except Mexico).

The HomeLink® Universal Transceiver button has now been reprogrammed. The new device can be activated by pushing the HomeLink® button that was just programmed. This procedure will not affect any other programmed HomeLink® buttons.

Information Provided by:
DEALER E-PROCESS

IF YOUR VEHICLE IS STOLEN

If your vehicle is stolen, you should change the codes of any non-rolling code device that has been programmed into HomeLink®. Consult the Owner's Manual of each device or call the manufacturer or dealer of those devices for additional information.

When your vehicle is recovered, you will need to reprogram the HomeLink® Universal Transceiver with your new transmitter information.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Information Provided by:
DEALER E-PROCESS

3 Pre-driving checks and adjustments

Keys 3-2
NISSAN vehicle immobilizer system keys (if so equipped) 3-2
Doors 3-3
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Locking with inside lock knob 3-4
Locking with power door lock switch (if so equipped) 3-4
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Automatic door locks (if so equipped) 3-5
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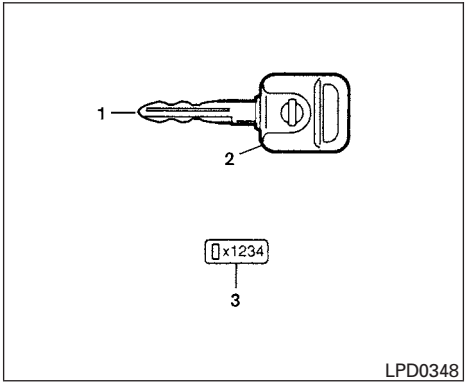
Information Provided by:
DEALER E-PROCESS



1. Two master keys (black) with transponder chip and chrome NISSAN brand symbol on one side
2. Transponder chip
3. Key number plate

A key number plate is supplied with your keys. Record the key number and keep the plate in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see a NISSAN dealer for duplicates by using the key number. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

A key number is only necessary when you have lost all your keys. If you still have a key, your NISSAN dealer can duplicate it.

NISSAN VEHICLE IMMOBILIZER SYSTEM KEYS (if so equipped)

You can only drive your vehicle using the master key which is registered to the NISSAN Vehicle Immobilizer System components in your vehicle. This key has a transponder chip in the key head.

The master key can be used for all the locks.

Never leave these keys in the vehicle.

Additional or replacement keys:

If you still have a key, the key number is not necessary when you need extra NISSAN Vehicle Immobilizer System keys. Your dealer can duplicate your existing key. As many as five NISSAN Vehicle Immobilizer System keys can be used with one vehicle. You should bring all NISSAN Vehicle Immobilizer System keys that you have to your NISSAN dealer for registration. This is because the registration process will erase the memory of all key codes previously registered into the NISSAN Vehicle Immobilizer System. After the registration process, these components will only recognize keys coded into the NISSAN Vehicle Immobilizer System during registration. Any key that is not given to your dealer at the time of registration will no longer be able to start your vehicle.

⚠ CAUTION

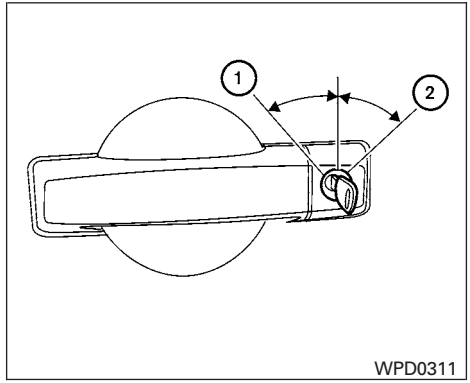
Do not allow the immobilizer system key, which contains an electrical transponder, to come into contact with water or salt water. This could affect system function.

Information Provided by: DEALER E-PROCESS

When the doors are locked using one of the following methods, the doors cannot be opened using the inside or outside door handles. The doors must be unlocked to open the doors.

⚠ WARNING

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **Before opening any door, always look for and avoid oncoming traffic.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**

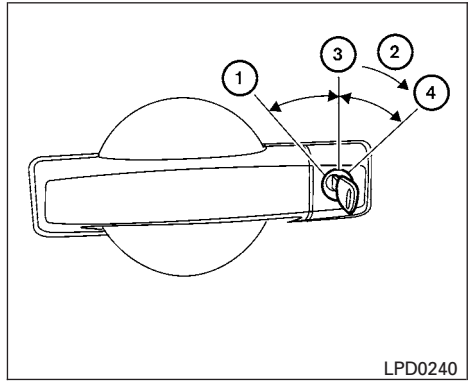


Driver's side and Passenger's side (if so equipped)

LOCKING WITH KEY

Manual (if so equipped)

To lock a door, turn the key toward the front of the vehicle ①. To unlock, turn the key toward the rear ②.



Driver's side

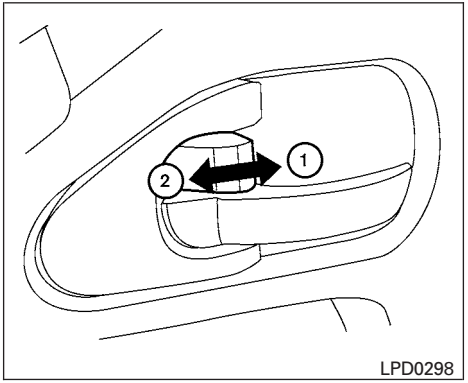
Power (if so equipped)

The power door lock system allows you to lock or unlock all doors at the same time.

Turning the key toward the front ① of the vehicle locks all the doors.

Turning the key 1 time toward the rear ② of the vehicle unlocks that door. From that position, returning the key to neutral ③ (where the key can only be removed and inserted) and turning it toward the rear again within 5 seconds unlocks all doors ④.

Information Provided by: DEALER E-PROCESS

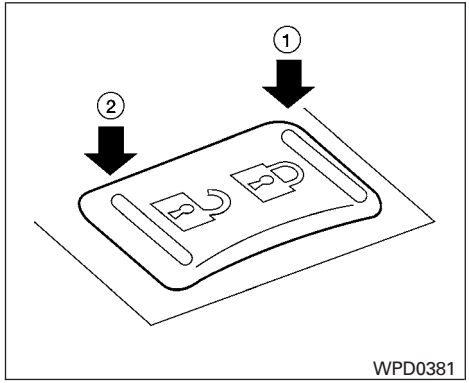


Inside lock

LOCKING WITH INSIDE LOCK KNOB

To lock the door without the key, move the inside lock knob to the lock position ①, then close the door.

To unlock the door without the key, move the inside lock knob to the unlock position ②.



Door lock switch

LOCKING WITH POWER DOOR LOCK SWITCH (if so equipped)

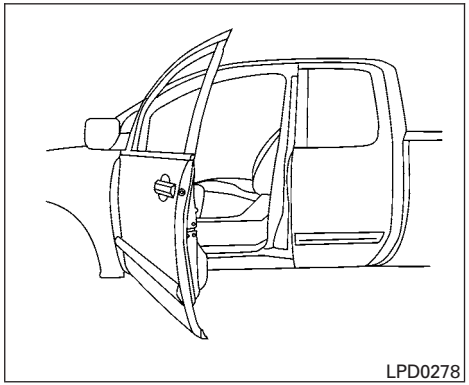
To lock all the doors without a key, push the door lock switch (driver's or front passenger's side) to the lock position ①. When locking the door this way, be certain not to leave the key inside the vehicle.

To unlock all the doors without a key, push the door lock switch (driver's or front passenger's side) to the unlock position ②.

Lockout protection

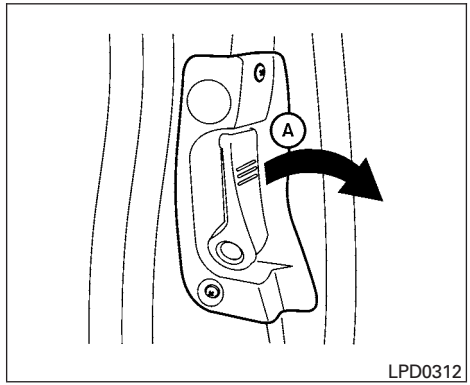
When the power door lock switch (driver's or front passenger's side) is moved to the lock position with the key in the ignition switch and any door opens, all doors will lock and then unlock automatically. This helps to prevent the keys from being accidently locked inside the vehicle.

Information Provided by:
DEALER E-PROCESS


LPD0278

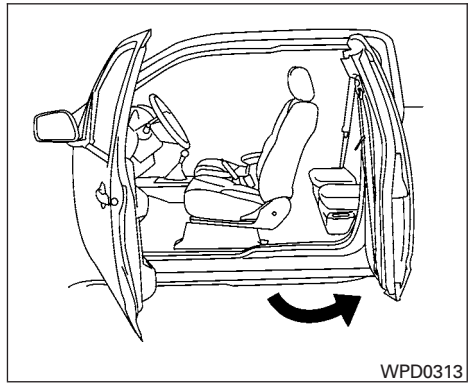
REAR DOORS (if so equipped)

1. Open the driver's or passenger's door.



LPD0312

2. From the outside, pull the door handle Ⓐ toward you.


WPD0313

3. Open the door to the desired position.

AUTOMATIC DOOR LOCKS (if so equipped)

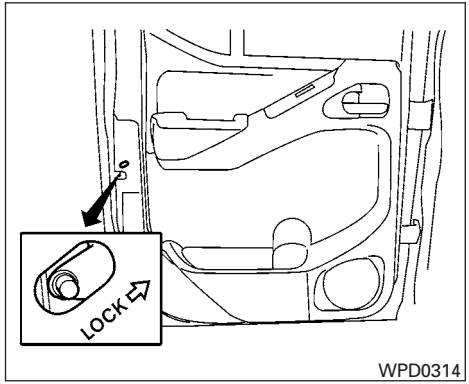
- All doors lock automatically when the vehicle speed reaches 15 MPH (24 km/h).
- For automatic transmission models: All doors unlock automatically when the transmission is placed in the P (Park) position.
- For manual transmission models: All doors unlock automatically when the key is removed from the ignition.

Information Provided by:
DEALER E-PROCESS

The automatic unlock function can be deactivated or activated. To deactivate or activate the automatic door unlock system, perform the following procedure:

1. Close all doors.
2. Place the ignition switch in the ON position.
3. Within 20 seconds of performing Step 2, push and hold the power door lock switch to the position (UNLOCK) for more than 5 seconds.
4. When activated, the hazard indicator will flash twice. When deactivated, the hazard indicator will flash once.
5. The ignition switch must be placed in the OFF and ON position again between each setting change.

When the automatic door unlock system is deactivated, the doors do not unlock when the ignition is placed in the OFF position. To unlock the door manually, use the inside lock knob or the power door lock switch (driver's or front passenger's side).



CHILD SAFETY REAR DOOR LOCK (if so equipped)

Child safety locks help prevent the rear doors from being opened accidentally, especially when small children are in the vehicle.

The child safety lock levers are located on the edge of the rear doors.

When the lever is in the LOCK position, the door can be opened only from the outside.

⚠WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The remote keyless entry key fob transmits radio waves when the buttons are pushed. The FAA advises radio waves may affect aircraft navigation and communication systems. Do not operate the remote keyless entry key fob while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored for a flight**

It is possible to lock/unlock all doors, turn the interior lights on, and activate the panic alarm by using the key fob from outside the vehicle.

Be sure to remove the key from the vehicle before locking the doors.

The key fob can operate at a distance of approximately 33 ft (10 m) from the vehicle. The effective distance depends on the conditions around the vehicle.

Information Provided by:
DEALER E-PROCESS

As many as 5 key fobs can be used with one vehicle. For information concerning the purchase and use of additional key fobs, contact a NISSAN dealer.

The key fob will not function when:

- the battery is discharged
- the distance between the vehicle and the key fob is over 33 ft (10 m)

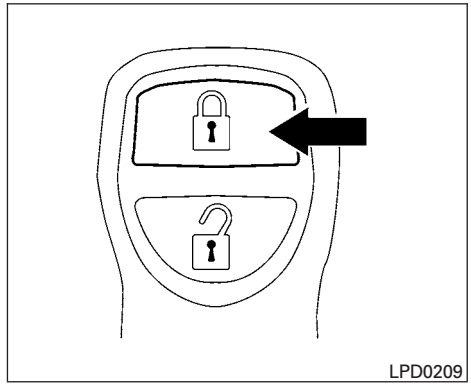
The panic alarm will not activate when the key is in the ignition switch.

⚠ CAUTION

Listed below are conditions or occurrences which will damage the key fob:

- **Do not allow the key fob, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the key fob.**
- **Do not strike the key fob sharply against another object.**
- **Do not change or modify the key fob.**
- **Wetting may damage the key fob. If the key fob gets wet, immediately wipe until it is completely dry.**
- **Do not place the key fob for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the key fob with a key holder that contains a magnet.**
- **Do not place the key fob near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If a key fob is lost or stolen, NISSAN recommends erasing the ID code of that key fob. This will prevent the key fob from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact a NISSAN dealer.


LPD0209

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

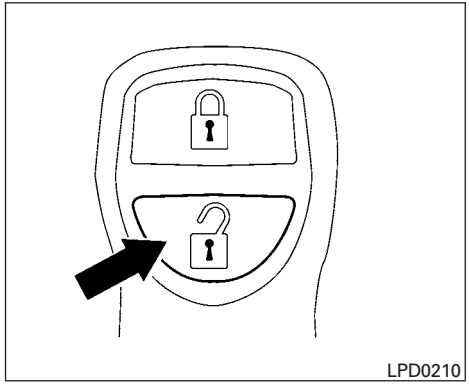
Locking doors

1. Close all windows.
2. Remove the key from the ignition switch.
3. Close the hood and all doors.
4. Press the button on the key fob. All the doors lock. The hazard warning lights flash twice and the horn beeps once to indicate all doors are locked.

Information Provided by: DEALER E-PROCESS

- When the button is pressed with all doors locked, the hazard warning lights flash twice and the horn beeps once as a reminder that the doors are already locked.
- If a door is open and you press the button, the doors will lock but the horn will not beep and the hazard lights will not flash.

The horn may or may not beep. For additional information, refer to “Silencing the horn beep feature” in this section.


LPD0210

Unlocking doors

Press the button on the key fob once.

- Only the driver’s door unlocks.
- The hazard warning lights flash once if all doors are completely closed with the ignition switch in any position except the ON position.
- The interior lights illuminate for a period of time when the interior light switch is in the normal operation position.

Press the button on the key fob again within 5 seconds.

- All doors unlock.
- The hazard warning lights flash once if all doors are completely closed.

The interior lights can be turned off without waiting by inserting the key into the ignition switch and placing the ignition switch in the ON or START position, locking the doors with the key fob or pushing the interior light switch to the OFF position.

Auto relock

When the button on the key fob is pressed, all doors will lock automatically within 1 minute unless one of the following operations is performed:

- Any door is opened.
- A key is inserted into the ignition switch and the switch is cycled from OFF to ON.

Information Provided by: DEALER E-PROCESS

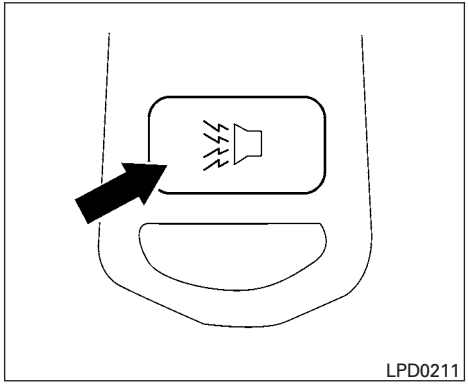
Opening windows (if so equipped)

The key fob allows you to open windows equipped with automatic operation.

- To open the windows, press the button on the key fob for **longer than 3 seconds** after all doors are unlocked.

The door windows will open while pressing the button on the key fob.

The door windows cannot be closed by using the key fob.


LPD0211

Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention by pressing and holding the button on the key fob for **longer than 0.5 seconds.**

The panic alarm and headlights will stay on for a period of time.

The panic alarm stops when:

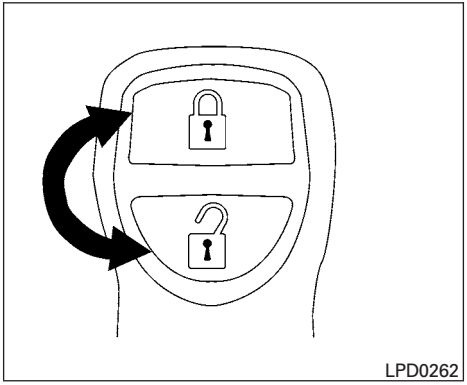
- it has run for a period of time, or
- any button is pressed on the key fob.

Using the interior lights

Press the button on the key fob once to turn on the interior lights.

For additional information, refer to “Interior lights” in the “Instruments and controls” section in this manual.

Information Provided by:
DEALER E-PROCESS


LPD0262

Silencing the horn beep feature

If desired, the horn beep feature can be deactivated using the key fob.

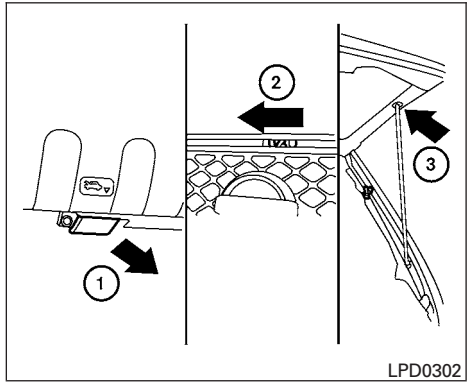
To deactivate: Press and hold the and buttons **for at least 2 seconds.**

The hazard warning lights will flash three times to confirm that the horn beep feature has been deactivated.

To activate: Press and hold the and buttons **for at least 2 seconds once more.**

The hazard warning lights will flash once and the horn will sound once to confirm that the horn beep feature has been reactivated.

Deactivating the horn beep feature does not silence the horn if the alarm is triggered.



LPD0302

① Pull the hood lock release handle located below the driver's side instrument panel. The hood will spring up slightly.

② Push the lever at the front of the hood to the side as illustrated with your fingertips and raise the hood.

③ Insert the support rod into the slot on the underside of the hood.

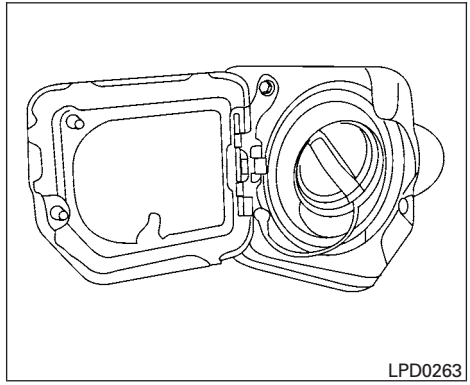
When closing the hood, return the hood rod to its original position. Lower the hood approximately 12 in (30 cm) above the latch and release it. This allows proper engagement of the hood latch.

Information Provided by: DEALER E-PROCESS

FUEL-FILLER DOOR

⚠WARNING

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**



FUEL-FILLER CAP

⚠WARNING

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.**
- **Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury. It could also cause the Malfunction Indicator Light (MIL) to come on.**
- **Never pour fuel into the throttle body to attempt to start your vehicle.**
- **Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:**
  - **Always place the container on the ground when filling.**
  - **Do not use electronic devices when filling.**

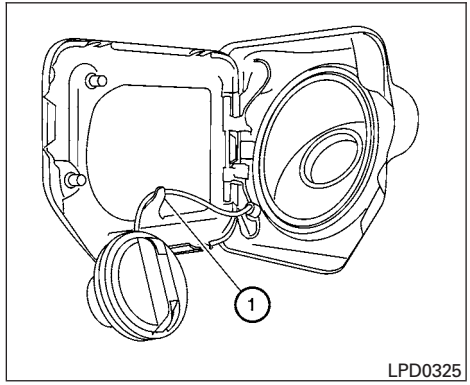
Information Provided by:
DEALER E-PROCESS

– **Keep the pump nozzle in contact with the container while you are filling it.**

– **Use only approved portable fuel containers for flammable liquid.**

⚠CAUTION

- **Do not use E-15 or E-85 fuel in your vehicle. For additional information, refer to the “Fuel Recommendation” in the “Technical and consumer information” section of this manual.**
- **The LOOSE FUEL CAP warning message will be displayed if the fuel-filler cap is not properly tightened. It may take a few driving trips for the message to be displayed. Failure to tighten the fuel-filler cap properly after the LOOSE FUEL CAP warning message is displayed may cause the Malfunction Indicator Light (MIL) to illuminate.**
- **Failure to tighten the fuel-filler cap properly may cause the Malfunction Indicator Light (MIL) to illuminate. If the light illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer.**
- **For additional information, refer to the “Malfunction Indicator Light (MIL)” in the “Instruments and Controls” section in this manual.**
- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**



LPD0325

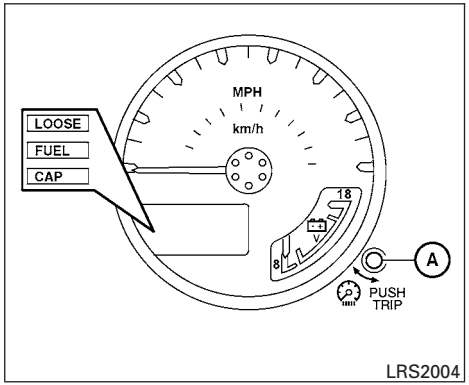
To remove the fuel-filler cap:

1. Turn the fuel-filler cap counterclockwise to remove.
2. Loop the tether strap around the hook ① while refueling.

To install the fuel-filler cap:

1. Insert the fuel-filler cap straight into the fuel-filler tube.
2. Turn the fuel-filler cap clockwise until a single click is heard.

Information Provided by: DEALER E-PROCESS



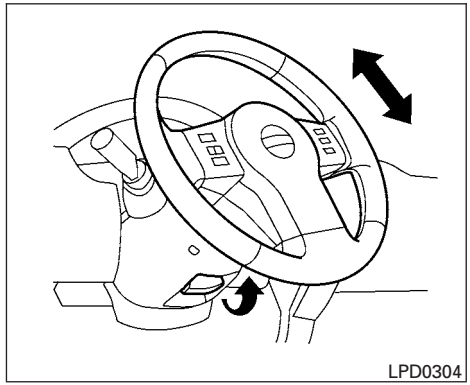
LRS2004

Loose Fuel Cap warning message

The LOOSE FUEL CAP warning message displays in the odometer when the fuel-filler cap is not tightened correctly after the vehicle has been refueled. It may take a few driving trips for the message to be displayed. To turn off the warning message, perform the following:

1. Remove and install the fuel-filler cap as described above as soon as possible.
2. Tighten the fuel-filler cap until it clicks.
3. Push the loose fuel cap warning reset button Ⓐ in the meter for about 1 second to turn off the LOOSE FUEL CAP warning message after tightening the fuel-filler cap.

For additional information, refer to “Meters and gauges” in the “Instruments and Controls” section in this manual.


LPD0304

TILT OPERATION (if so equipped)

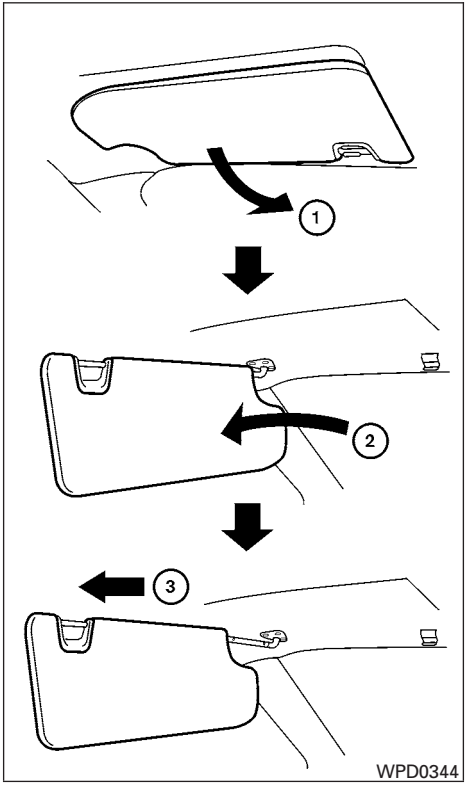
Pull the lock lever forward and hold it to adjust the steering wheel up or down to the desired position.

Release the lock lever to lock the steering wheel in place.

⚠WARNING

Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.

Information Provided by:
DEALER E-PROCESS



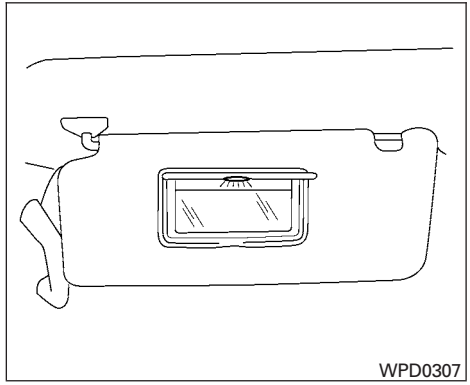
① To block glare from the front, swing down the main sun visor.

② To block glare from the side, remove the main sun visor from the center mount and swing the visor to the side.

③ To extend the sun visor, slide in or out as needed.

⚠CAUTION

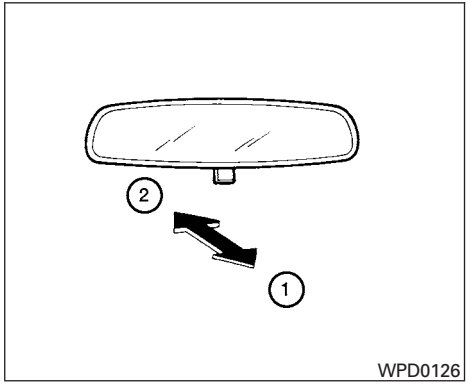
- **Do not store the sun visor before returning the extension to its original position.**
- **Do not pull the extension sun visor forcedly downward.**



VANITY MIRRORS (if so equipped)

To access the vanity mirror, pull the sun visor down and flip open the mirror cover. Some vanity mirrors are illuminated and turn on when the mirror cover is open.

Information Provided by:
DEALER E-PROCESS



REARVIEW MIRROR (if so equipped)

Use the night position ① to reduce glare from the headlights of vehicles behind you at night.

Use the day position ② when driving in daylight hours.

⚠WARNING

Use the night position only when necessary, because it reduces rear view clarity.

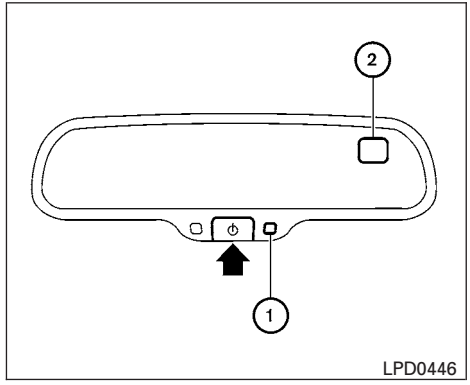
AUTOMATIC ANTI-GLARE REARVIEW MIRROR (if so equipped)

The inside mirror is designed so that it automatically dims during night time conditions and according to the intensity of the headlights of the vehicle following you. The automatic anti-glare feature is activated when the ignition switch is in the ON position.

The indicator light will illuminate when the automatic anti-glare feature is operating.

NOTE:

Do not hang any objects over the sensors ① or apply glass cleaner to the sensors. Doing so will reduce the sensitivity of the sensors, resulting in improper operation.



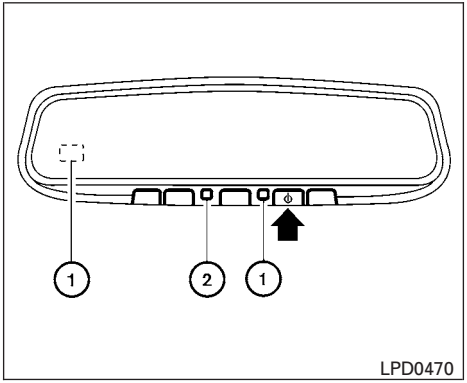
Type A (if so equipped)

The indicator light will illuminate when the automatic anti-glare feature is operating.

With the ignition switch in the ON position, press the ⏻ button as described:

- To turn off the anti-glare feature, press the ⏻ button. The indicator light will turn off.
- To turn on the anti-glare feature, press the ⏻ button again. The indicator light will turn on.

Information Provided by: DEALER E-PROCESS



Type B (if so equipped)

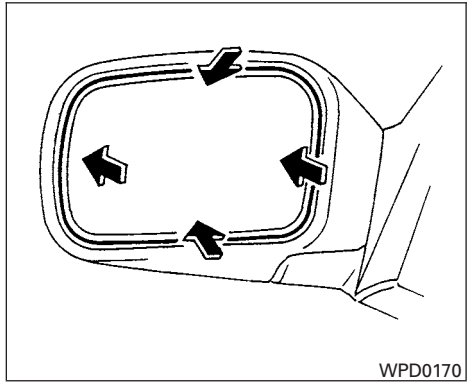
For information on HomeLink® Universal Transceiver (if so equipped) operation, refer to the “HomeLink® Universal Transceiver” in the “Instruments and controls” section of this manual.

For additional information about the compass ② and compass features, refer to “Compass display” in the “Instruments and controls” section of this manual.

OUTSIDE MIRRORS

⚠ WARNING

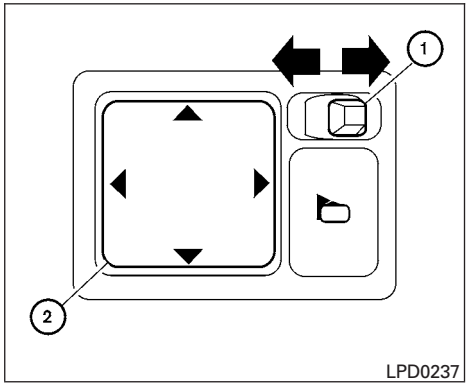
- **Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.**
- **Do not adjust the mirrors while driving. You could lose control of your vehicle and cause an accident.**



Manual control type (if so equipped)

The outside mirror can be moved in any direction for a better rear view.

Information Provided by:
DEALER E-PROCESS



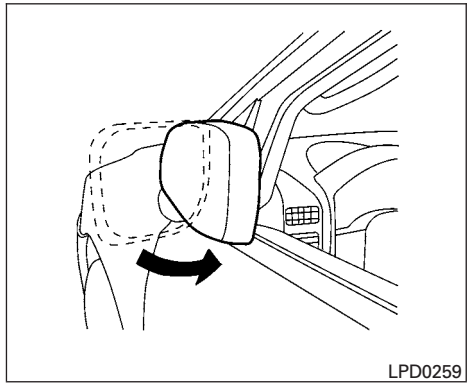
Electric control type (if so equipped)

The outside mirror remote control will operate only when the ignition switch is placed in the ACC or ON position.

Move the small switch ① to select the right or left mirror. Move the large switch ② to adjust each mirror to the desired position.

Heated mirrors (if so equipped)

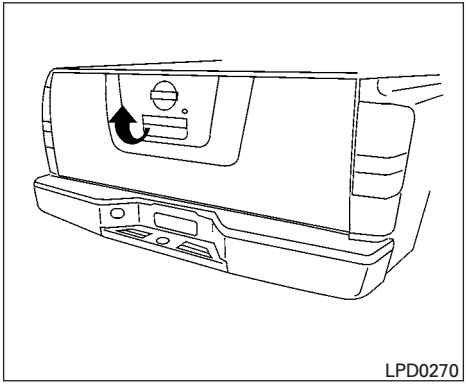
Some outside mirrors can be heated to defrost, defog, or de-ice for improved visibility. For additional information, refer to “Rear window and outside mirror (if so equipped) defroster switch” in the “Instruments and controls” section of this manual.



Foldable outside mirrors

Pull the outside mirror toward the door to fold it.

Information Provided by:
DEALER E-PROCESS


LPD0270

TAILGATE

Opening the tailgate

Pull the tailgate handle upward and lower the tailgate. The support cables hold the tailgate open.

When closing the tailgate, make sure the latches are securely locked.

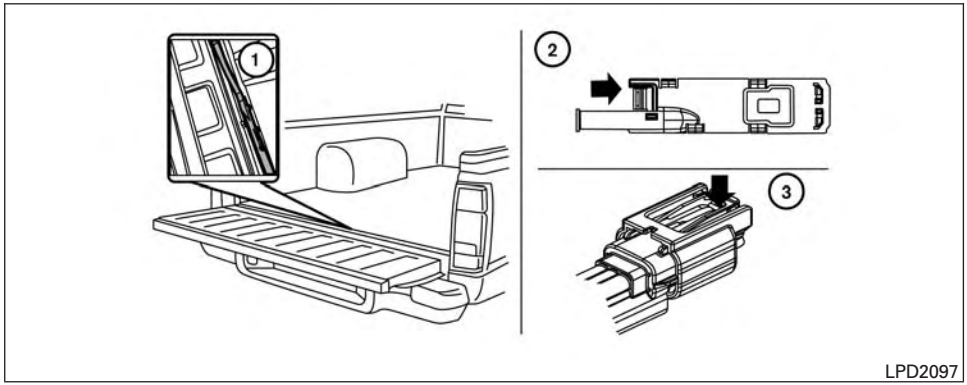
Do not drive the vehicle with the tailgate down, unless equipped with NISSAN's Bed Extender (accessory) or equivalent in the extended position.

For additional information on proper truck box loading, refer to "Vehicle loading information" in the "Technical and consumer information" section of this manual.

⚠ WARNING

- **It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

Information Provided by: DEALER E-PROCESS



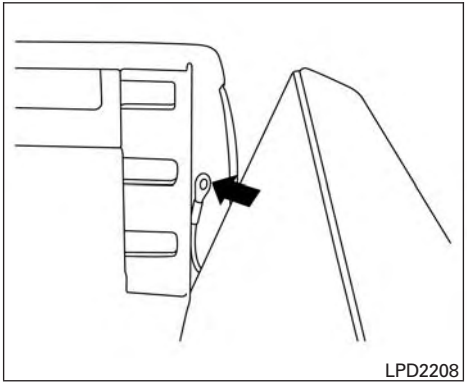
LPD2097

Disconnecting the rear camera (if so equipped)

Before removing the tailgate disconnect the rear camera by performing the following:

1. Open the tailgate to access the rear camera connector bracket ① located on the rear sill.
2. Remove the connector bracket ② from the sill by pressing the locking tab inward, in the direction shown, while pulling the bracket apart.
3. Disconnect the chassis wiring harness ③ by pressing inward on the locking tab, in the direction shown, while pulling the connectors apart. Hold the connector firmly to prevent the connector in the chassis harness from falling into the sill.
4. Take the chassis plug and bracket from the glove box and connect them to the chassis wiring harness to avoid contamination to the terminals which will lead to malfunction of the rear camera.
5. Insert the bracket back into the sill.
6. Take the tailgate plug from the glove box and connect it to the tailgate wiring harness to avoid contamination which will lead to malfunction of the rear camera.
7. Remove the tailgate. For additional information, refer to “Removing the tailgate” in this section.

Information Provided by:
DEALER E-PROCESS


LPD2208

Removing the tailgate

1. Release the tailgate support cables.

⚠CAUTION

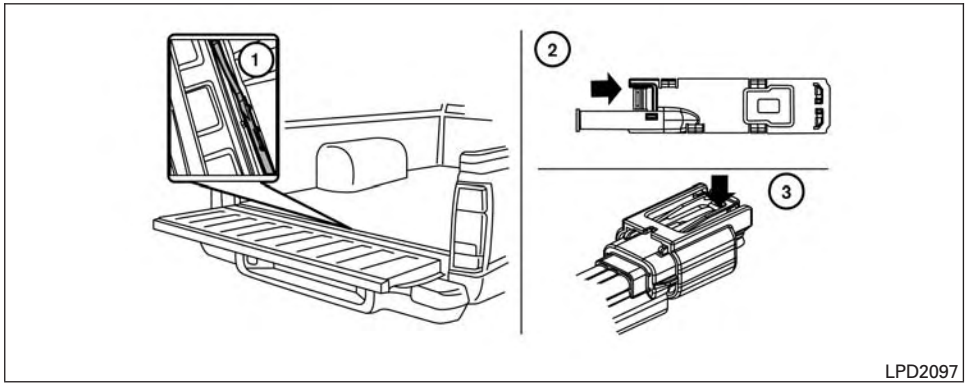
- **The tailgate is heavy. Two people should remove or install it. Be careful not to drop it during removal.**
- **After releasing the support cables, do not let the tailgate rest on the bumper.**

2. Hold the tailgate at a 15 degree angle.
3. Pull the tailgate out from the right side hinge.
4. Slide the tailgate out of the left side hinge.

Installing the tailgate

1. Insert the tailgate into the left side hinge.
2. Hold the tailgate at a 15 degree angle and insert into the right side hinge.
3. Continue to hold the tailgate at a 15 degree angle and attach the tailgate support cables.
4. Close the tailgate securely.

Information Provided by:
DEALER E-PROCESS

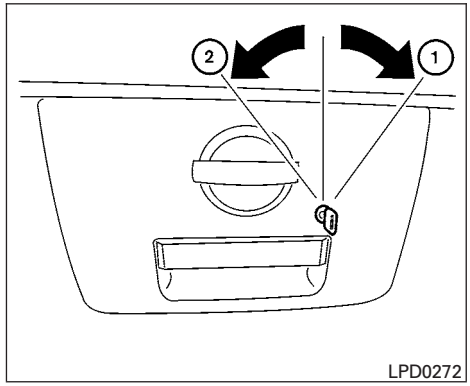


LPD2097

Connecting the rear camera (if so equipped)

Before closing the tailgate reconnect the rear camera by performing the following:

1. After attaching the rear tailgate to the truck, keep the tailgate open and check that the tailgate harness is not hanging below the tailgate.
2. Remove the connector bracket ② from the sill by pressing the locking tab inward, in the direction shown, while pulling the bracket apart.
3. Disconnect the chassis plug and bracket from the chassis wiring harness ③. Keep the connector and bracket in a safe place such as the glove box.
4. Disconnect the tailgate plug from the tailgate wiring harness. Keep the tailgate plug in a safe place such as the glove box.
5. Connect the tailgate wiring harness to the chassis wiring harness.
6. Securely fix the rear camera connector bracket ① to the rear sill.
7. Close the tailgate securely.



LPD0272

Locking the tailgate

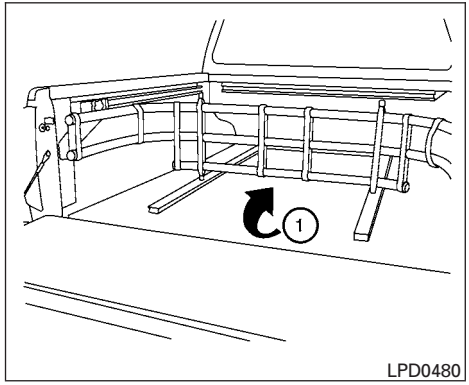
To lock the tailgate, turn the key toward the passenger side of the vehicle ①. To unlock, turn the key toward the driver side ②.

Information Provided by:
DEALER E-PROCESS

BED EXTENDER (if so equipped)

⚠ CAUTION

- **Do not overload the bed extender. Maximum load on the open tailgate is 200 lbs (890N).**
- **Evenly distribute and properly secure all cargo.**
- **Do not use the bed extender or tailgate to secure cargo.**

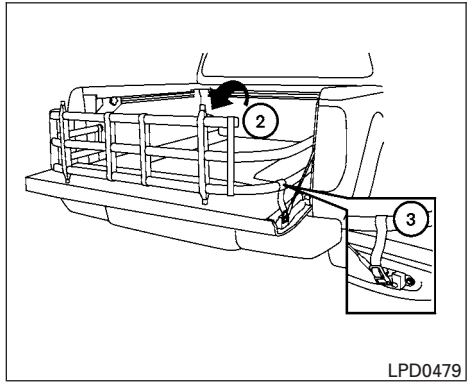


LPD0480

Positioning the bed extender

To use the bed extender in the inward position perform the following:

1. Rotate the bed extender ① toward the cab of the truck.
2. If necessary, remove tethers from the tailgate latch.
3. Tighten the knobs to secure the extender into the desired position.
4. Close the tailgate.
5. Place cargo inside the bed extender in the truck bed.
6. Properly secure the cargo.



LPD0479

To use the bed extender in the outward position perform the following:

1. Open the tailgate.
2. Rotate the bed extender ② away from the cab of the truck until the extender sits on the tailgate.
3. Lock the buckles ③ into the tailgate latch on both sides.

The bed extender can be adjusted in the outward position by moving the extender along the rail.

Information Provided by:
DEALER E-PROCESS

NOTE:

Use care when rotating extender, buckles may come in contact with the truck bed railing.

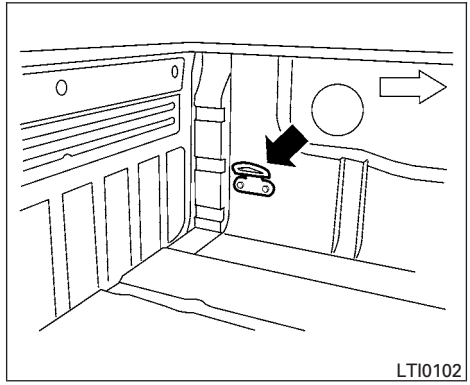
Removing and installing the bed extender

To remove or install the bed extender perform the following:

1. Open the tailgate.
2. Rotate the bed extender into a vertical position and lift straight up (to remove) or lower straight down (to install).

To store the bed extender in the front of the truck when not in use perform the following:

1. Position the sliding brackets past the center of the wheel well.
2. Re-install the extender into the brackets (see above).
3. Rotate the extender to the inward position.
4. Push the brackets forward until the extender comes in contact with the front wall of the truck box.



TIE DOWN HOOKS (if so equipped)

For your convenience, tie down hooks are placed at each corner of the truck box. These may be used to help secure cargo loaded into the truck box.

- The weight of the cargo load must be evenly distributed over both the front and the rear axles.
- All cargo should be securely fastened with ropes or straps to prevent it from shifting or sliding within the vehicle.

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**

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MEMO

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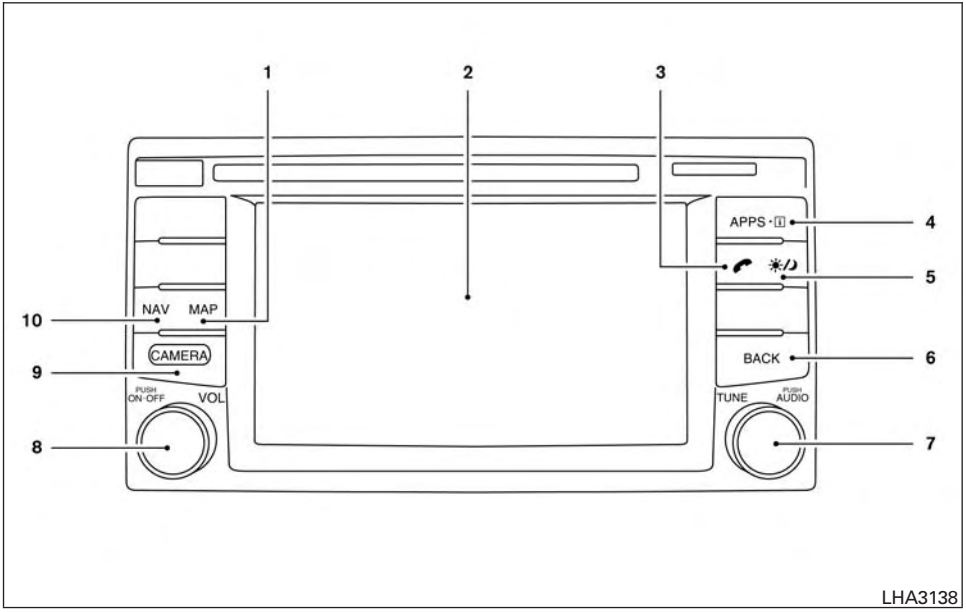
Information Provided by:
DEALER E-PROCESS

CONTROL PANEL BUTTONS — COLOR SCREEN WITH NAVIGATION SYSTEM (if so equipped)

⚠WARNING

- **Positioning of the heating or air conditioning controls and display controls should not be done while driving in order that full attention may be given to the driving operation.**
- **Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electrical shock.**
- **Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.**
- **In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately and contact your nearest NISSAN dealer. Ignoring such conditions may lead to accidents, fire or electrical shock.**



1. MAP button*
2. Display screen
3. button**
4. APPS button
5. (brightness control) button
6. BACK button
7. ENTER/AUDIO button / TUNE knob
8. ON-OFF button/VOL (volume) control knob

Information Provided by: DEALER E-PROCESS

9. CAMERA button

10. NAV button*

* For additional information, refer to the separate Navigation System Owner's Manual regarding the Navigation system control buttons.

** For additional information, refer to the "Bluetooth® Hands-Free Phone System with navigation system" or "Bluetooth® Hands-Free Phone System without navigation system" regarding Bluetooth® Hands-Free Phone System control button in this section.

When you use this system, make sure the engine is running.

If you use the system with the engine not running (ignition ON or ACC) for a long time, it will discharge the battery, and the engine will not start.

Reference symbols:

"Example" — Words marked in quotes refer to a key shown only on the display. These keys can be selected by touching the screen.

HOW TO USE THE TOUCH-SCREEN

⚠ CAUTION

- **The glass display screen may break if it is hit with a hard or sharp object. If the glass screen breaks, do not touch it. Doing so could result in an injury.**
- **To clean the display, never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or deteriorate the panel.**
- **Do not splash any liquid such as water or car fragrance on the display. Contact with liquid will cause the system to malfunction.**

To help ensure safe driving, some functions cannot be operated while driving.

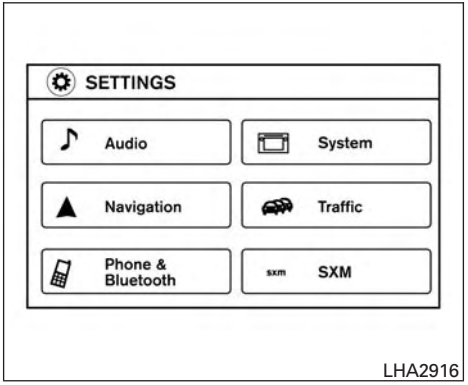
The on-screen functions that are not available while driving will be grayed out or muted.

Park the vehicle in a safe location and then operate the navigation system.

⚠ WARNING

- **ALWAYS give your full attention to driving.**
- **Avoid using vehicle features that could distract you. If distracted, you could lose control of your vehicle and cause an accident.**

Information Provided by:



Touch-screen operation

Menu Item		Result
Selecting the item		Touch an item to select . To select the “Audio” key, touch the “Audio” key ① on the screen. Press the BACK button to return to the previous screen.
Adjusting the item		Touch the “+” key or the “−” key to adjust the settings of an item. Touch the up arrow to scroll up the page one item at a time, or touch the double up arrow to scroll up an entire page. Touch the down arrow to scroll down the page one item at a time, or touch the double down arrow to scroll down an entire page.
Inputting characters		Touch the letter or number key. There are some options available when inputting characters.
	123/ABC	Changes the available character set to numbers.
	Space	Inserts a space.
	Delete	Deletes the last inputted character with one touch. Touch and hold the “Delete” key to delete all of the characters.
	OK	Completes the character input.

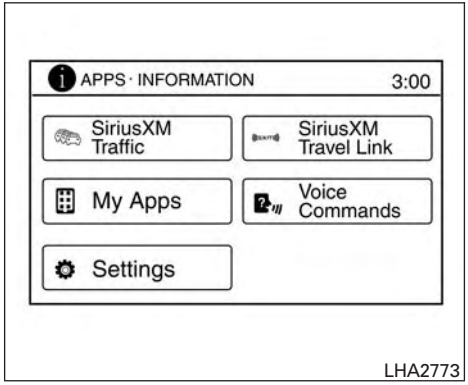
Information Provided by:
DEALER E-PROCESS

Touch-screen maintenance

If you clean the display screen, use a dry, soft cloth. If additional cleaning is necessary, use a small amount of neutral detergent with a soft cloth. Never spray the screen with water or detergent. Dampen the cloth first and then wipe the screen.

HOW TO USE THE BACK BUTTON

Press the BACK button to return to the previous screen.



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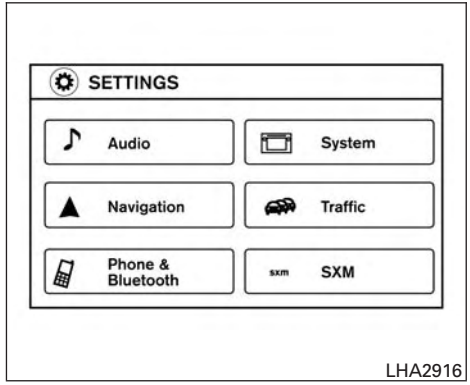
HOW TO USE THE APPS BUTTON

For additional information, refer to the separate Navigation System Owner's Manual regarding the "SiriusXM Travel Link" and "SiriusXM Traffic" features.

For additional information, refer to "NissanConnect^{SM} Mobile Apps" regarding the "My Apps" key in this section.

For additional information, refer to "NISSAN Voice Recognition System" regarding the "Voice Commands" key in this section.



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To select and/or adjust several functions, features and modes that are available for your vehicle:

1. Press the [APPS] button.
2. Touch the "Settings" key.
3. Touch the desired item.

Information Provided by:

Menu item			Result
Audio			For additional information, refer to “Audio system” in this section.
Navigation			For additional information, refer to the separate Navigation System Owner’s Manual.
Phone & Bluetooth			For additional information, refer to “Bluetooth® Hands-Free Phone System with Navigation System” in this section.
System			Touch this key to select and/or adjust various functions of this system. A screen with additional options will appear.
	Display		Touch this key to adjust the appearance of the display.
		Brightness	Adjusts the brightness of the display.
		Display Mode	Adjusts to fit the level of lighting in the vehicle. Touch key to cycle through options. “Day” and “Night” modes are suited for the respective times of day while “Auto” controls the display automatically.
		Scroll Direction	Adjusts the direction of the menu scroll. Choose to either move up or down.
	Clock		Touch this key to adjust the time.
		Time Format	The clock can be set to 12 hours or 24 hours.
		Date Format	Select from five possible formats for displaying the day, month, and year.
		Clock Mode	Adjust the mode for the clock. “Auto” uses the system’s GPS to automatically maintain the time. “Manual” allows you to set the clock using the “Set Clock Manually” key.
		Set Clock Manually	Adjust the clock manually, Touch the “+” or “-” keys to adjust the hours, minutes, day, month and year up or down. “Clock Mode” must be set to manual for this option to be available.
		Daylight Savings Time	Adjusts the daylight savings time on or off.
		Time Zone	Choose the applicable time zone from the list.
	Language		Touch this key to change the language on the display.
	Camera		Touch this key to change the camera settings.
		Display Mode	Touch this key to select the touch-screen display mode (day, night, or automatic).
		Brightness	Adjust touch-screen brightness.
		Contrast	Adjust touch-screen contrast.
		Color	Adjust touch-screen color.

Information Provided by:
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Menu item		Result
	Temperature Unit	Touch this key to change the temperature unit being displayed (Fahrenheit or Celsius).
	Touchscreen click	Toggles the touchscreen click feature on or off. When activated a click sound will be heard every time a key on the screen is touched.
	System Beeps	Toggle the system beep tones feature on or off. When activated, a beep sound will be heard when a pop-up message appears on the screen or a button on the unit (such as the ☼/☽ button) is pressed and held for 2 seconds.
	Return to Factory Settings/Clear Memory	Touch this key to return all settings to default and to clear the memory.
	Software Licenses	Touch this key to display software licensing information.
Traffic		Touch this key to display traffic settings. For additional information, refer to the separate Navigation System Owner's Manual.
SXM		Touch this key to display SXM status information. For additional information, refer to "Audio System" regarding SXM setup in this section.

☼/☽ BUTTON

To change the display brightness, press the ☼/☽ button. Pressing the button again will change the display to day or night display mode.

If no operation is performed within 5 seconds, the display will return to the previous display.

Press and hold the ☼/☽ button for more than 2 seconds to turn the display off. Press the button again to turn the display on.

HOW TO USE THE ON-OFF BUTTON/VOL (volume) CONTROL KNOB

Press the ON-OFF button to turn audio function on and off. Turn the volume control knob to adjust audio volume.

HOW TO USE THE CAMERA BUTTON

For additional information, refer to "RearView Monitor" in this section regarding the CAMERA button.

Information Provided by:

REARVIEW MONITOR (if so equipped)

When the shift lever is shifted into the R (Reverse) position, the monitor display shows the view to the rear of the vehicle.

⚠ WARNING

Failure to follow the warnings and instructions for proper use of the RearView Monitor could result in serious injury or death.

- **The RearView Monitor is a convenience but it is not a substitute for proper backing. Always turn and look out the windows, and check mirrors to be sure that it is safe to move before operating the vehicle. Always back up slowly.**
- **The system is designed as an aid to the driver in showing large stationary objects directly behind the vehicle, to help avoid damaging the vehicle.**
- **The system cannot completely eliminate blind spots and may not show every object.**
- **Underneath the bumper and the corner areas of the bumper cannot be viewed on the RearView Monitor because of its monitoring range limitation. The system will not show small objects below the bumper, and may not show objects close to the bumper or on the ground.**
- **Objects viewed in the RearView Monitor differ from actual distance because a wide-angle lens is used.**
- **Objects in a RearView Monitor will appear visually opposite than when viewed in the rear view and outside mirrors.**
- **Make sure that the tailgate is securely closed when backing up.**
- **Do not put anything on the rearview camera. The rearview camera is installed below the tailgate.**
- **When washing the vehicle with high pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.**

⚠ CAUTION

There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from the cover.

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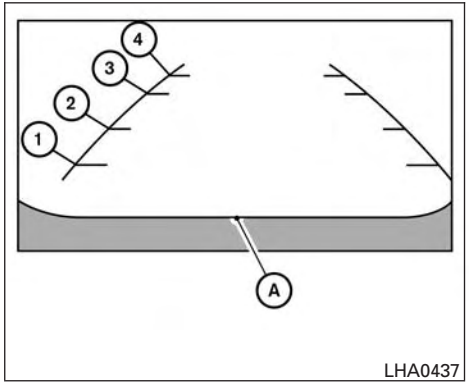

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HOW TO READ THE DISPLAYED LINES

Guiding lines which indicate the vehicle width and distances to objects with reference to the vehicle body line Ⓐ are displayed on the monitor.

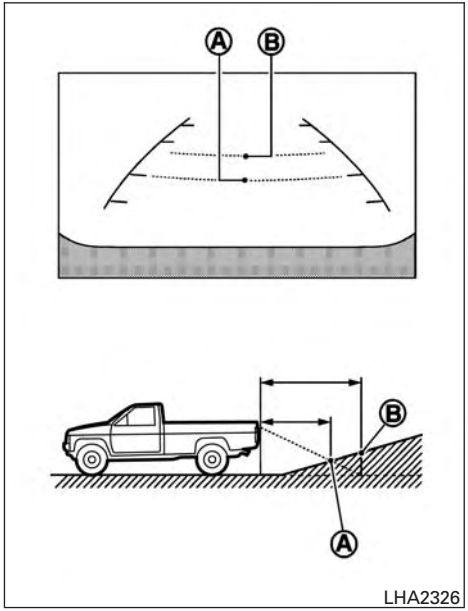
Distance guide lines

Indicate distances from the vehicle body.

- Red line ①: approx. 0.5 m. (1.5 ft)
- Yellow line ②: approx. 1 m (3 ft)
- Green line ③: approx. 2 m (7 ft)
- Green line ④: approx. 3 m (10 ft)

DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES

The distance guide lines and the vehicle width guide lines should be used as a reference only when the vehicle is on a level, paved surface. The distance viewed on the monitor is for reference only and may be different than the actual distance between the vehicle and displayed objects.



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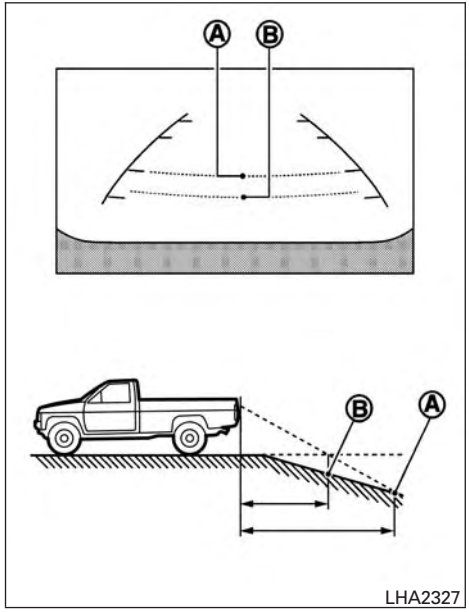
Backing up on a steep uphill

When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. For example, the display shows 3 ft (1.0 m) to the place Ⓐ, but the actual 3 ft (1.0 m) distance on

Information Provided by:
DEALER E-PROCESS

the hill is the place Ⓑ. Note that any object on the hill is further than it appears on the monitor.



Backing up on a steep downhill

When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. For example, the display shows 3 ft (1.0 m) to the place Ⓐ, but the actual 3 ft (1.0 m) distance on the hill is the place Ⓑ. Note that any object on the hill is closer than it appears on the monitor.

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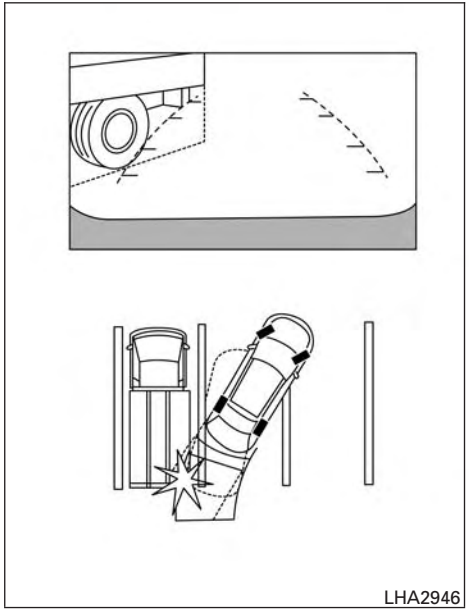
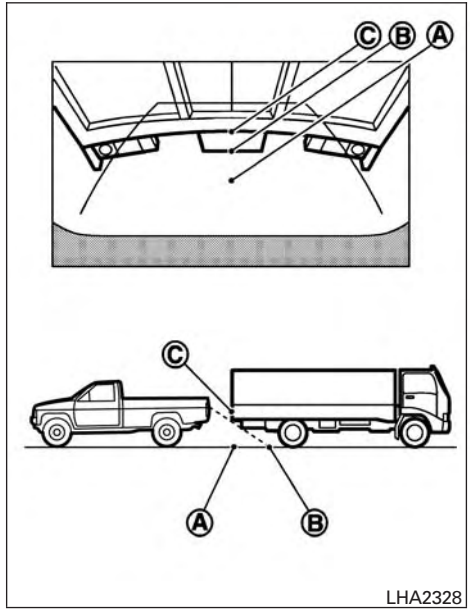


Backing up near a projecting object

The vehicle may seem to nearly clear the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.



Backing up behind a projecting object

The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

ADJUSTING THE SCREEN

The procedure for adjusting the display settings of the screen differs depending on the type of screen present on the vehicle.

For vehicles without Navigation System

1. Firmly apply the brake and place the shift lever in R (reverse)
2. Press the ENTER/SETTING button.
3. The screen will display the Brightness settings.
4. Turn the TUNE/SCROLL knob to adjust the setting up or down.
5. Press the ENTER/SETTING button again to display the Contrast settings.
6. Turn the TUNE/SCROLL knob to adjust the setting up or down.
7. Press the ENTER/SETTING button to complete the adjustment.

- Do not adjust the display settings of the RearView Monitor while the vehicle is moving.

Information Provided by:

For vehicles with Navigation System

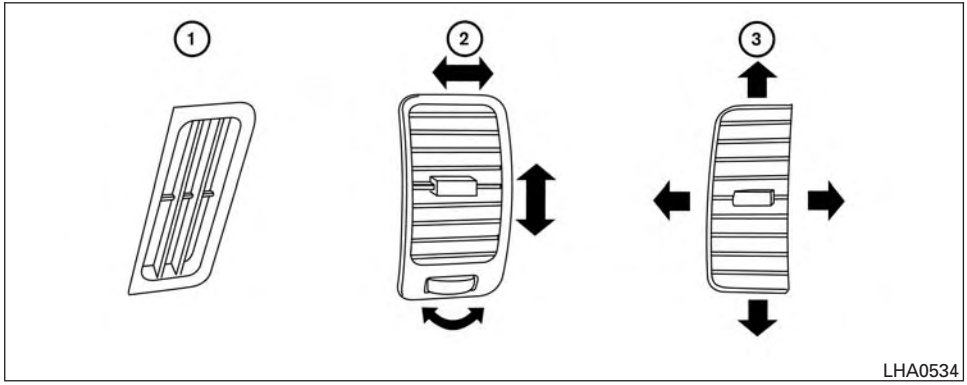
1. Firmly apply the brake and place the shift lever in R (reverse)
2. Press the ☼/☽ button on the control panel.
3. The screen will display the Night settings.
4. Turn the TUNE/SCROLL knob to adjust the setting up or down.
5. Press the ☼/☽ button again to access the Auto settings.
6. Turn the TUNE/SCROLL knob to adjust the setting up or down.

- Do not adjust the display settings of the RearView Monitor while the vehicle is moving.

OPERATING TIPS

- When the shift lever is shifted to R (Reverse), the monitor screen automatically changes to the RearView Monitor mode. However, the radio can be heard.
- It may take some time until the RearView Monitor is displayed after the shift lever has been shifted to R (Reverse). Objects may be distorted momentarily until the RearView Monitor screen is displayed completely. When the shift lever is returned to a position other than R (Reverse), it may take some time until the screen changes. Objects on the screen may be distorted until they are completely displayed.
- When the temperature is extremely high or low, the screen may not clearly display objects. This is not a malfunction.
- When strong light directly enters the camera, objects may not be displayed clearly. This is not a malfunction.
- Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper. This is not a malfunction.
- The screen may flicker under fluorescent light. This is not a malfunction.
- The colors of objects on the RearView Monitor may differ somewhat from those of the actual object.
- Objects on the monitor may not be clear in a dark place or at night. This is not a malfunction.
- If dirt, rain or snow attaches to the camera, the RearView Monitor may not display objects. Clean the camera.
- Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with diluted mild cleaning agent and then wipe with a dry cloth.
- Do not damage the camera as the monitor screen may be adversely affected.
- Do not use wax on the camera window. Wipe off the wax with a clean cloth dampened with mild detergent diluted with water.

Information Provided by:
DEALER E-PROCESS



Adjust air flow direction for the vents directed at the driver's and passenger's side windows ①, driver and passenger ②, or center ③ by moving the vent slide and/or vent assemblies.

⚠WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

NOTE:

- Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.
- When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.

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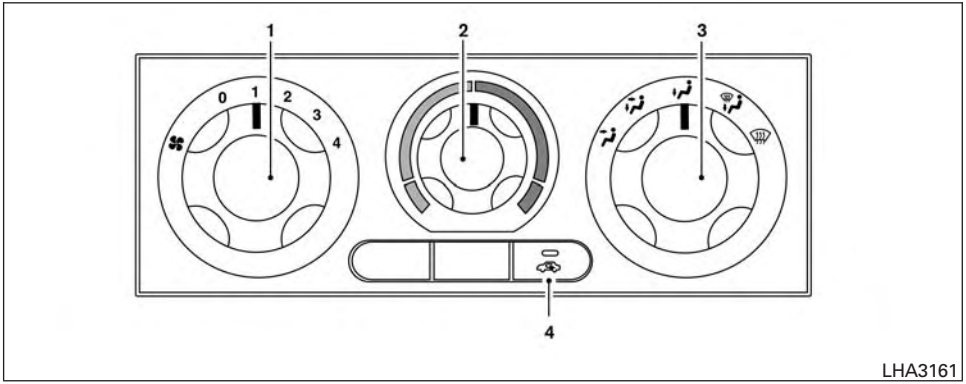
DEALER E-PROCESS



CONTROLS

1. Fan control dial
2. Temperature control dial
3. Air flow control dial
4. Air recirculation button

Fan control dial

The fan control dial turns the fan on and off and controls fan speed.

Air flow control dial

The air flow control buttons allow you to select the air flow outlets.

— Air flows from center and side vents.

— Air flows from center and side vents and the front and rear floor outlets.

— Air flows mainly from the front and rear floor outlets.

— Air flows from defroster outlets and the front and rear floor outlets.

— Air flows mainly from defroster outlets.

Temperature control dial

The temperature control dial allows you to adjust the temperature of the outlet air. To lower the temperature, turn the dial to the left. To increase the temperature, turn the dial to the right.

Air recirculation button

ON position

Press the button to recirculate air inside the vehicle.

Press the button to the ON position when:

- driving on a dusty road.
- to prevent traffic fumes from entering passenger compartment

The air recirculation mode is only functional when the air flow control mode is in the following positions: or .

OFF position

Press the button again to turn air recirculation off. Outside air is drawn into the passenger compartment and distributed through the selected outlet.

Use the OFF position for normal heater operation.

Information Provided by:

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets.

1. Press the button to the OFF position for normal heating. The indicator light on the button will go off.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

Ventilation

This mode directs outside air to the side and center vents.

1. Press the button to the OFF position. The indicator light on the button will go off.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Defrosting or defogging

This mode directs the air to the defrost outlets to defrost/defog the windows.

1. Press the defrost/defog button .
2. Turn the fan control dial to the desired position.
3. Turn the temperature control dial to the desired position between the middle and the hot position.

- To quickly remove ice or fog from the windows, turn the fan control dial to the highest setting and the temperature control to the full HOT position.
- When the position is selected, the mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Bi-level heating

The bi-level mode directs warmed air to the side and center vents and to the front and rear floor outlets.

1. Press the button to the OFF position. The indicator light on the button will go off.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Heating and defogging

This mode heats the interior and defogs the windshield.

1. Press the air flow control button.
2. Turn the fan control dial to the desired position.
3. Turn the temperature control dial to the desired position between the middle and the hot position.

Information Provided by:

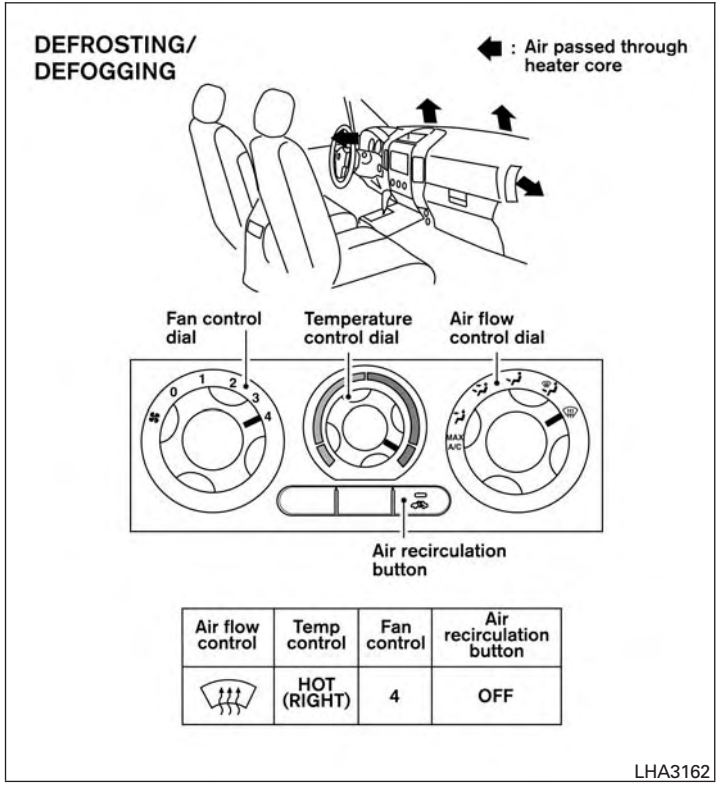
- If the air flow control button is selected for more than 1 minute, the system will continue to operate until the fan control dial is turned to OFF or the vehicle is shut off. This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Operating tips

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

AIR FLOW CHARTS

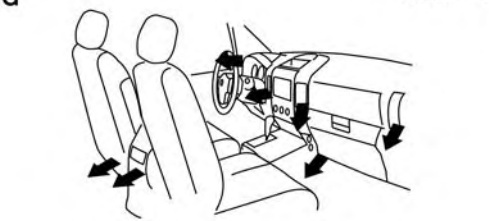
The following charts show the button and dial positions for **MAXIMUM AND QUICK** heating or defrosting. **The air recirculation button should always be in the OFF position for heating and defrosting.**

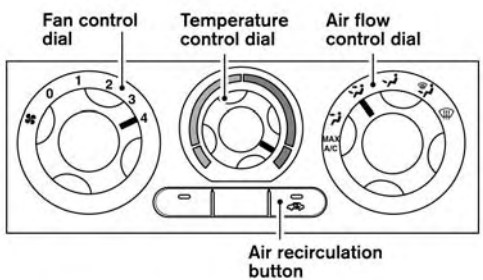


Information Provided by:

BI-LEVEL HEATING

: Air passed through heater core



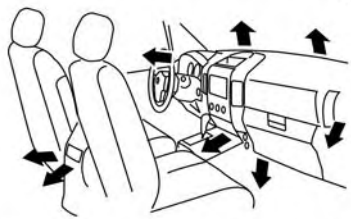


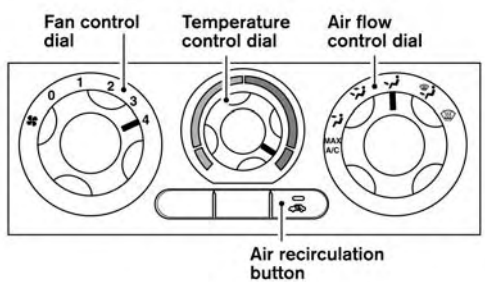
Air flow control	Temp control	Fan control	Air recirculation button
	HOT (RIGHT)	4	OFF

LHA3164

HEATING

: Air passed through heater core

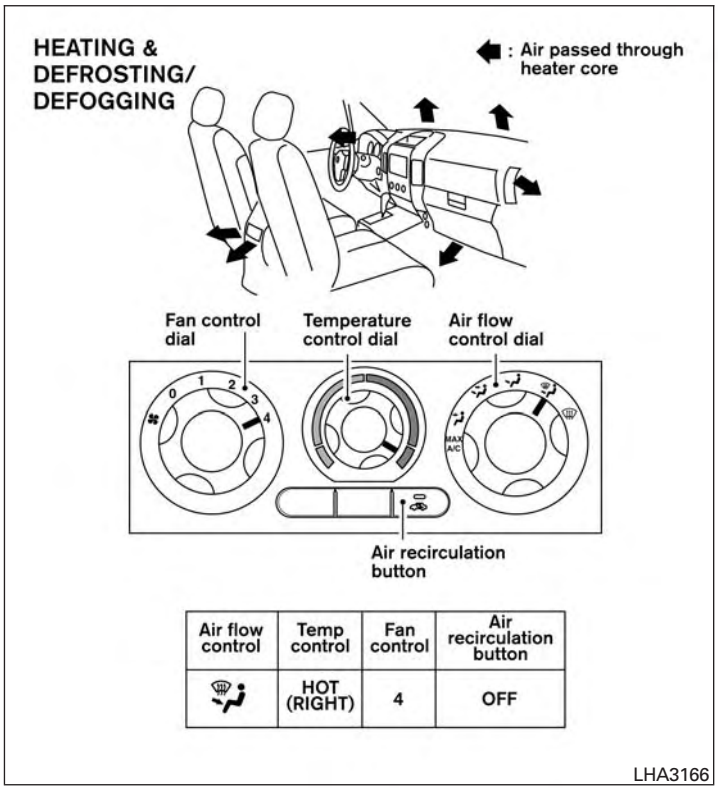




Air flow control	Temp control	Fan control	Air recirculation button
	HOT (RIGHT)	4	OFF

LHA3165

Information Provided by:



Air flow control	Temp control	Fan control	Air recirculation button
	HOT (RIGHT)	4	OFF

Information Provided by:

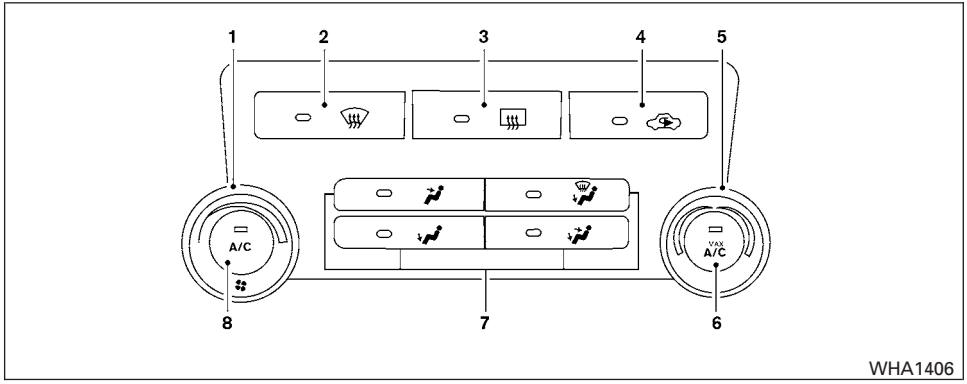
HEATER AND AIR CONDITIONER (manual) (if so equipped)

⚠ WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

NOTE:

- Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.
- When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.

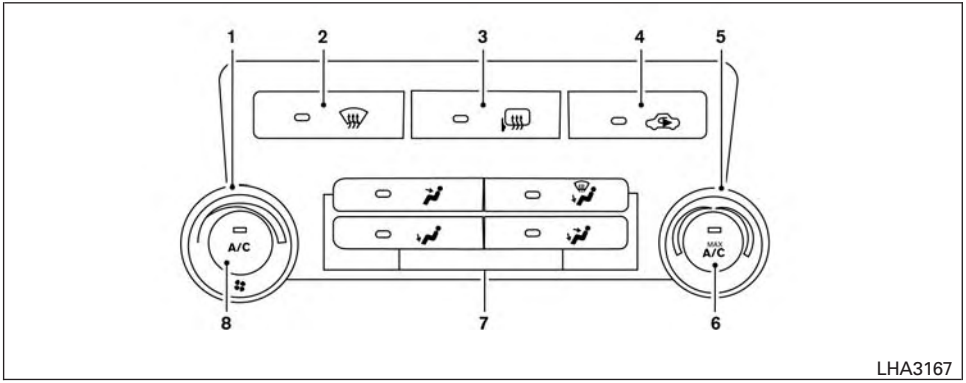


Type A (if so equipped)

CONTROLS

1. Fan speed control dial
2. Front window defroster button
3. Rear window defroster switch (if so equipped)
4. Air recirculation button
5. Temperature control dial
6. Max A/C button
7. Air flow control buttons
8. Air conditioner ON/OFF button

Information Provided by:
DEALER E-PROCESS



Type B (if so equipped)

CONTROLS

1. Fan speed control dial
2. Front window defroster button
3. Outside mirror defroster switch (if so equipped)
4. Air recirculation button
5. Temperature control dial
6. Max A/C button
7. Air flow control buttons
8. Air conditioner ON/OFF button

Fan control dial

The fan control dial turns the fan on and off, and controls fan speed.

Air flow control buttons

The air flow control buttons allow you to select the air flow outlets.

MAX A/C — Air flows from center and side vents with maximum cooling (air conditioning).

— Air flows from center and side vents.

— Air flows from center and side vents and foot outlets.

— Air flows mainly from foot outlets.

— Air flows from defroster outlets and foot outlets.

— Air flows mainly from defroster outlets.

Temperature control dial

The temperature control dial allows you to adjust the temperature of the outlet air. To lower the temperature, turn the dial to the left. To increase the temperature, turn the dial to the right.

Air recirculation button

ON position (Indicator light on)
Interior air is recirculated inside the vehicle.

Press the button to the ON position when:

- driving on a dusty road.
- to prevent traffic fumes from entering passenger compartment.
- for maximum cooling when using the air conditioner.

Information Provided by:
DEALER E-PROCESS

OFF position (Indicator light off)
Outside air is drawn into the passenger compartment and distributed through the selected outlet.

Use the OFF position for normal heater or air conditioner operation.

A/C Air conditioner button

Start the engine, turn the fan control dial to the desired position and press the A/C button to turn on the air conditioner. To turn off the air conditioner, press the A/C button again.

The air conditioner cooling function operates only when the engine is running.

Rear window or outside mirror defroster switch (if so equipped)

For additional information about the rear window or outside mirror defroster switch, refer to “Rear window or outside mirror defroster switch.” in the “Instruments and controls” section of this manual.

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets.

1. Press the button to the OFF position for normal heating. The indicator light on the button will go off.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

Ventilation

This mode directs outside air to the side and center vents.

1. Press the button to the OFF position. The indicator light on the button will go off.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Defrosting or defogging

This mode directs the air to the defrost outlets to defrost/defog the windows.

1. Press the defrost/defog button .
2. Turn the fan control dial to the desired position.
3. Turn the temperature control dial to the desired position between the middle and the hot position.

- To quickly remove ice or fog from the windows, turn the fan control dial to the highest setting and the temperature control to the full HOT position.
- When the position is selected, the air conditioner automatically turns on if the outside temperature is more than 36°F (2°C). This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Information Provided by:
DEALER E-PROCESS

Bi-level heating

The bi-level mode directs warmed air to the side and center vents and to the front and rear floor outlets.

1. Press the button to the OFF position. The indicator light on the button will go off.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Heating and defogging

This mode heats the interior and defogs the windshield.

1. Press the air flow control button.
2. Turn the fan control dial to the desired position.
3. Turn the temperature control dial to the desired position between the middle and the hot position.

- When the position is selected, the air conditioner automatically turns on if the outside temperature is more than 36°F (2°C). If the air flow control button is selected for more than 1 minute, the air conditioning system will continue to operate until the fan control dial is turned to OFF, the vehicle is shut off, or the A/C button is used to turn off the compressor even if the air flow control dial is turned to a position other than the position. This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Operating tips

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

AIR CONDITIONER OPERATION

Start the engine, turn the fan control dial to the desired position, and press the A/C button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions are added to the heater operation.

The air conditioner cooling function operates only when the engine is running.

Cooling

This mode is used to cool and dehumidify the air.

1. Press the button to the OFF position.
2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Press the A/C button.
5. Turn the temperature control dial to the desired position.

- For quick cooling when the outside temperature is high, press the button to the ON position. Be sure to return the to the OFF position for normal cooling. The indicator light on the button will go off. You may also select MAX A/C for quick cooling.

Dehumidified heating

This mode is used to heat and dehumidify the air.

1. Press the button to the OFF position. The indicator light on the button will go off.

Information Provided by: DEALER E-PROCESS

2. Press the air flow control button.
3. Turn the fan control dial to the desired position.
4. Press the A/C button on.
5. Turn the temperature control dial to the desired position.

Dehumidified defogging

This mode is used to defog the windows and dehumidify the air.

1. Press the air flow control button.
2. Turn the fan control dial to the desired position.
3. Press the A/C button.

When the or positions are selected, the air conditioner automatically turns on if the outside temperature is more than 36°F (2°C). The air conditioning system will continue to operate until the fan control dial is turned to OFF, the air conditioner is turned OFF, or the vehicle is shut off, even if a position other than the air flow control button is selected. This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

4. Turn the temperature control dial to the desired position.

Operating tips

- Keep the windows closed while the air conditioner is in operation.
- After parking in the sun, drive for 2 or 3 minutes with the windows open to vent hot air from the passenger compartment. Then, close the windows. This allows the air conditioner to cool the interior more quickly.
- **The air conditioning system should be operated for approximately 10 minutes at least once a month. This helps prevent damage to the system due to lack of lubrication.**
- A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.
- **If the engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. For additional information, refer to “If your vehicle overheats” in the “In case of emergency” section of this manual.**

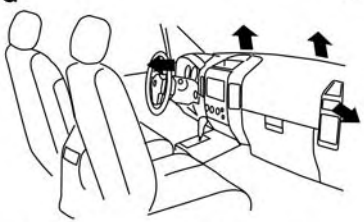
AIR FLOW CHARTS

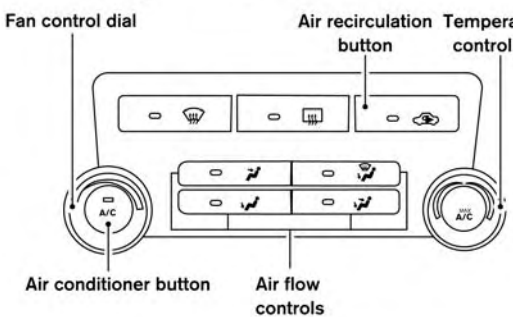
The following charts show the button and dial positions for **MAXIMUM AND QUICK** heating, cooling or defrosting. For additional information on heating and cooling, refer to “Heater and air conditioner (manual)” in this section. **The air recirculation ( ) button should always be in the OFF position for heating and defrosting.**

Information Provided by:

DEFROSTING/ DEFOGGING

: Air passed through heater core



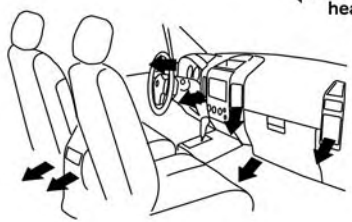


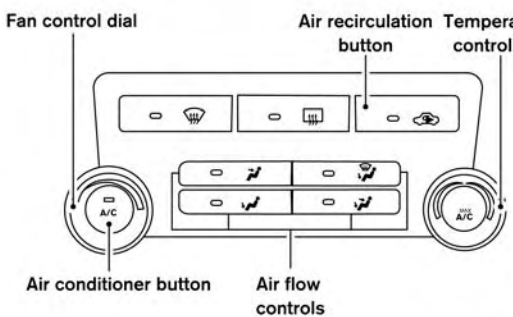
A/C Button	Air flow control	Temp control	Fan control	Air recirculation button
OFF		HOT (RIGHT)	HI (RIGHT)	OFF

LHA2059

BI-LEVEL HEATING

: Air passed through heater core





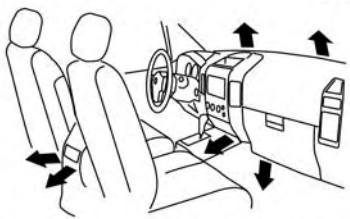
A/C Button	Air flow control	Temp control	Fan control	Air recirculation button
OFF		HOT (RIGHT)	HI (RIGHT)	OFF

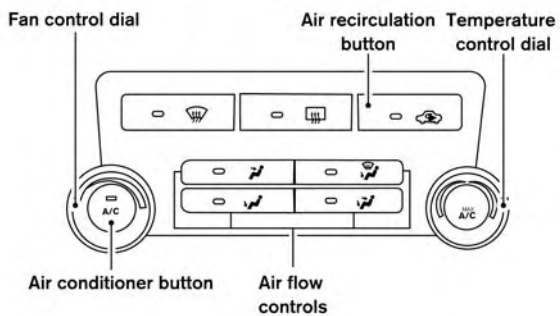
LHA2060

Information Provided by:

HEATING

: Air passed through heater core



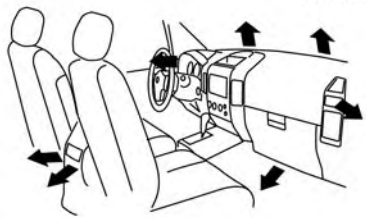


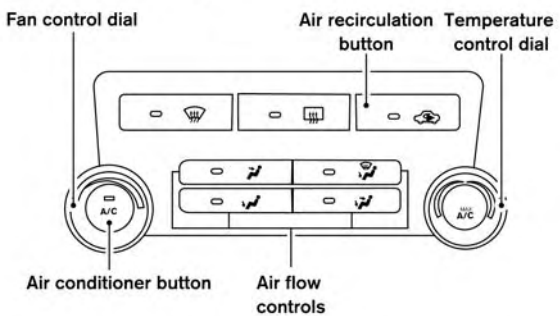
A/C Button	Air flow control	Temp control	Fan control	Air recirculation button
OFF		HOT (RIGHT)	HI (RIGHT)	OFF

LHA2061

HEATING & DEFROSTING/ DEFOGGING

: Air passed through heater core



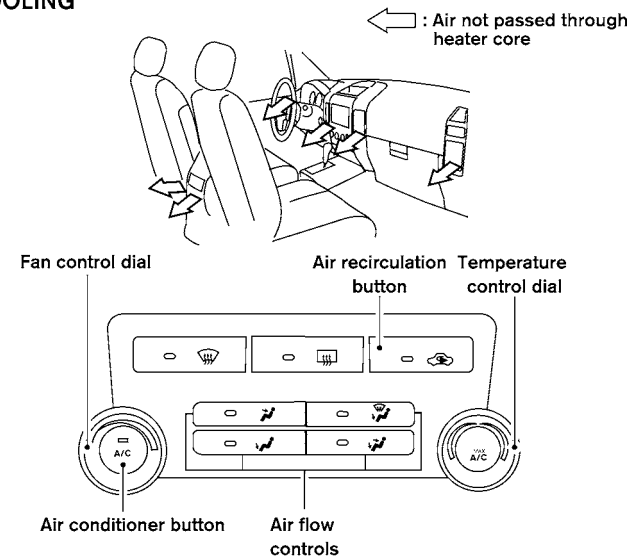


A/C Button	Air flow control	Temp control	Fan control	Air recirculation button
OFF		HOT (RIGHT)	HI (RIGHT)	OFF

LHA2062

Information Provided by:

COOLING

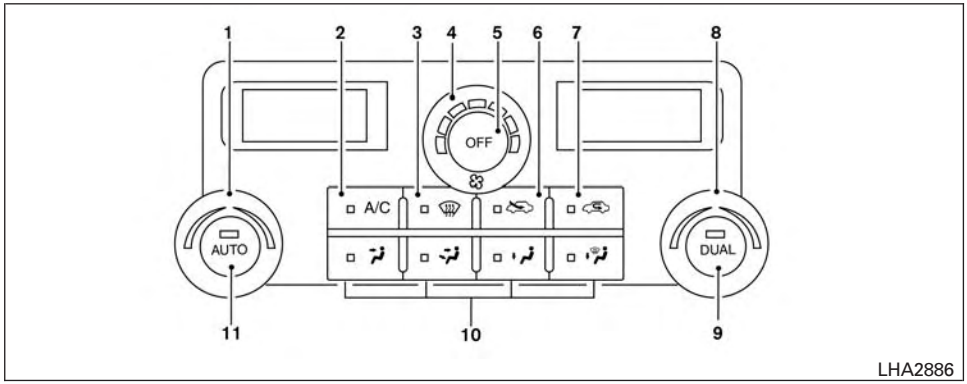


A/C Button	Air flow control	Temp control	Fan control	Air recirculation button
Auto turns ON	MAX A/C	COOL (LEFT)	HI (RIGHT)	Auto turns ON

WHA1362

Information Provided by:
DEALER E-PROCESS

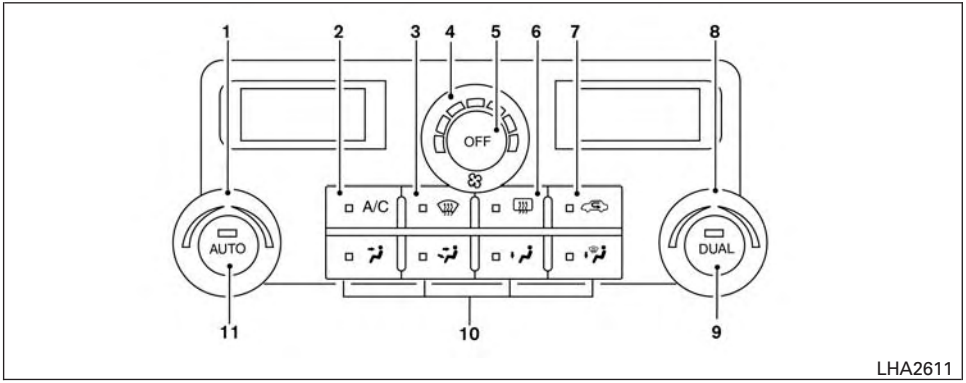
HEATER AND AIR CONDITIONER (automatic) (if so equipped)



Type A (if so equipped)

1. Driver temperature control dial
2. A/C ON/OFF button
3. Front window defroster button
4. Fan speed control dial
5. ⏻ (system off) button
6. Fresh air intake button
7. Air recirculation button
8. Passenger temperature control dial
9. DUAL button
10. Air flow control buttons
11. AUTO button

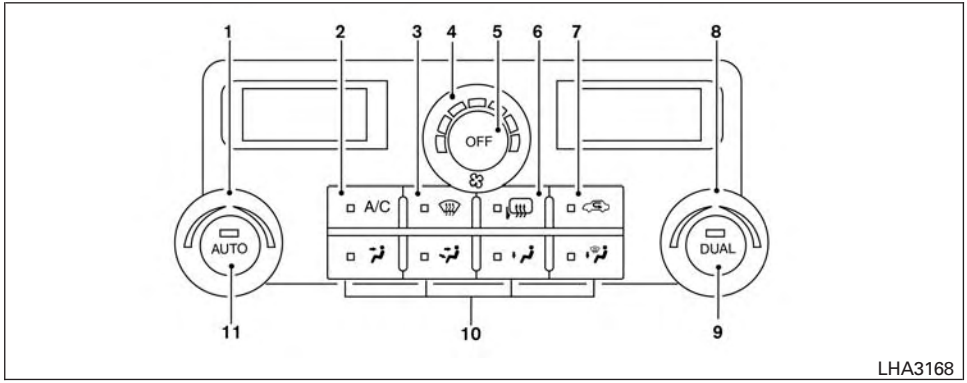
Information Provided by:
DEALER E-PROCESS



Type B (if so equipped)

1. Driver temperature control dial
2. A/C ON/OFF button
3. Front window defroster button
4. Fan speed control dial
5. ⏻ (system off) button
6. Rear window defroster button
7. Air recirculation button
8. Passenger temperature control dial
9. DUAL button
10. Air flow control buttons
11. AUTO button

Information Provided by:
DEALER E-PROCESS



Type C (if so equipped)

1. Driver temperature control dial
2. A/C ON/OFF button
3. Front window defroster button
4. Fan speed control dial
5. ⏻ (system off) button
6. Outside mirror defroster button
7. Air recirculation button
8. Passenger temperature control dial
9. DUAL button
10. Air flow control buttons
11. AUTO button

⚠WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**

Start the engine and operate the controls to activate the air conditioner.

Information Provided by:
DEALER E-PROCESS

NOTE:

- Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.
- When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.

AUTOMATIC OPERATION

Cooling or heating (auto)

This mode may be normally used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Press the AUTO button on.
2. Turn the temperature dial to the left or right to set the desired temperature. Driver and passenger temperatures can be set independently. Press DUAL to activate dual climate control functions. Turn the passenger's side temperature control dial to the left or right to set the desired passenger's temperature.

- Adjust the temperature dial to about 75°F (24°C) for normal operation.
- The temperature of the passenger compartment will be maintained automatically. Air flow distribution, fan speed and A/C on/off are also controlled automatically.
- A visible mist may be seen coming from the vents in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF)

The air conditioner does not activate. When you need to heat only, use this mode.

1. Press the AUTO button. The indicator light comes on.
2. Turn the temperature control dial to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- Do not set the temperature lower than the outside air temperature. Otherwise, the system may not work properly.
- Not recommended if windows fog up.

Dehumidified defrosting or defogging

1. Press the defroster control button to turn the system on. The indicator light in the button will illuminate.
2. Turn the temperature dial to the left or right to set the desired temperature.

- To quickly remove ice from the outside of the windows, turn the manual fan control to the maximum position.
- As soon as possible after the windshield is clean, press the AUTO button to return to the auto mode.
- When the control is activated, the air conditioner will automatically be turned on at outside temperatures above 36°F (2°C). If in defrost mode for more than 1 minute, the air conditioning system will continue to operate until the fan control is turned OFF, the vehicle is shut off or the A/C button is used to turn off the compressor even if an air flow button other than is selected. This dehumidifies the air which helps defog the windshield. The air recirculation mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Information Provided by: DEALER E-PROCESS

MANUAL OPERATION

Fan speed control dial

Turn the fan speed control dial left or right to manually control the fan speed or turn the system on or off.

Press the AUTO button to return to automatic control of the fan speed.

Air recirculation

Push the air recirculation button to recirculate interior air inside the vehicle. Push the AUTO button to return to automatic mode.

The air recirculation button will not be activated when the air conditioner is in DEF, floor, or floor/defrost mode.

Fresh air intake (if so equipped)

Press the fresh air intake button to draw outside air into the passenger compartment. The indicator light on the button will come on.

Air flow control

Press the air flow control buttons to manually control air flow and select the air outlet:

- — Air flows from center and side vents.
- — Air flows from center and side vents and foot outlets.
- — Air flows mainly from foot outlets.
- — Air flows from defroster and foot outlets.
- — Air flows from defroster outlets.

To turn system off

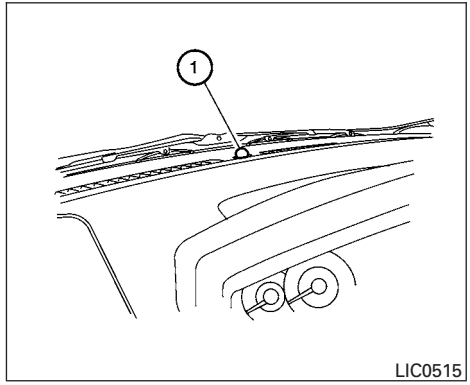
Press the /OFF button.

Outside mirror defroster switch (if so equipped)

For additional information about the outside mirror defroster switch, refer to “Rear window or outside mirror defroster switch” in the “Instruments and controls” section of this manual.

OPERATING TIPS

- When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for a maximum of 150 seconds. However, this is not a malfunction. After the coolant temperature warms up, air flow from the foot outlets will operate normally.



The sunload sensor ①, located on the top center of the instrument panel, helps the system maintain a constant temperature. Do not put anything on or around this sensor.

Information Provided by:
DEALER E-PROCESS

SERVICING AIR CONDITIONER (if so equipped)

The air conditioner system in your NISSAN vehicle is charged with a refrigerant designed with the environment in mind.

This refrigerant does not harm the earth's ozone layer.

Special charging equipment and lubricant is required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioner system. For additional information, refer to "Air conditioner system (if so equipped) refrigerant and oil recommendations" in the "Technical and consumer information" section of this manual.

A NISSAN dealer is able to service your "environmentally friendly" air conditioning system.

⚠WARNING

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with proper equipment.

AUDIO SYSTEM

RADIO

With the ignition placed in the ACC or ON position, press the ⏻ (power) or ON•OFF button to turn the radio on. If you listen to the radio with the engine not running, the ignition should be placed in the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

Using a cellular phone in or near the vehicle may influence radio reception quality.

Radio reception

Your NISSAN radio system is equipped with state-of-the-art electronic circuits to enhance radio reception. These circuits are designed to extend reception range, and to enhance the quality of that reception.

However, there are some general characteristics of both FM and AM radio signals that can affect radio reception quality in a moving vehicle, even when the finest equipment is used. These characteristics are completely normal in a given reception area and do not indicate any malfunction in your NISSAN radio system.

Reception conditions will constantly change because of vehicle movement. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.

Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.

FM RADIO RECEPTION

Range: FM range is normally limited to 25 – 30 mi (40 – 48 km), with monaural (single channel) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 25 mi (40 km). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example, they will reflect off objects.

Fade and drift: As your vehicle moves away from a station transmitter, the signals will tend to fade and/or drift.

Information Provided by:

Static and flutter: During signal interference from buildings, large hills or due to antenna position (usually in conjunction with increased distance from the station transmitter), static or flutter can be heard. This can be reduced by adjusting the treble control to reduce treble response.

Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

AM RADIO RECEPTION

AM signals, because of their low frequency, can bend around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics, AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obstacles exist.

Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.

SATELLITE RADIO RECEPTION (if so equipped)

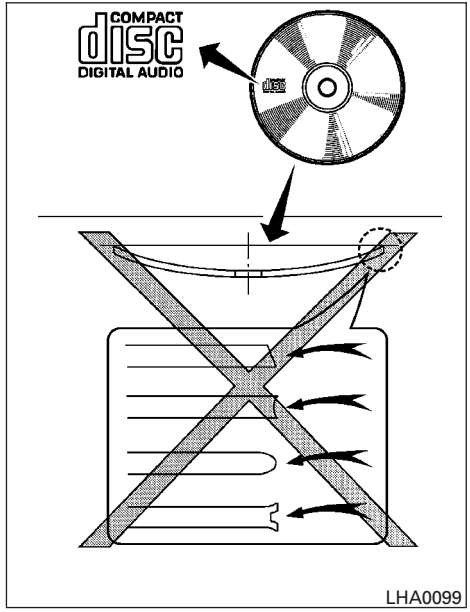
When the satellite radio is used for the first time or the battery has been replaced, the satellite radio may not work properly. This is not a malfunction. Wait more than 10 minutes with satellite radio ON and the vehicle outside of any metal or large building for satellite radio to receive all of the necessary data.

No satellite radio reception is available and “NO SAT” is displayed when the SAT band option is selected unless optional satellite receiver and antenna are installed and a SiriusXM® Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii and Guam.

Satellite radio performance may be affected if cargo carried on the roof blocks the satellite radio signal.

If possible, do not put cargo over the satellite antenna.

A build up of ice on the satellite radio antenna can affect satellite radio performance. Remove the ice to restore satellite radio reception.



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AUDIO OPERATION PRECAUTIONS

Information Provided by:

Compact disc (CD) player

⚠ CAUTION

- **Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD player.**
- **Trying to load a CD with the CD door closed could damage the CD and/or CD player.**
- **Only one CD can be loaded into the CD player at a time.**

- **Only use high quality 4.7 in (12 cm) round discs that have the "COMPACT disc DIGITAL AUDIO" logo on the disc or packaging.**
- **During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.**
- **The player may skip while driving on rough roads.**
- **The CD player sometimes cannot function when the compartment temperature is extremely high or low. Decrease/increase the temperature before use.**
- **Do not expose the CD to direct sunlight.**
- **CDs that are in poor condition or are dirty, scratched or covered with fingerprints may not work properly.**
- **The following CDs may not work properly:**
  - **Copy control compact discs (CCCD)**
  - **Recordable compact discs (CD-R)**
  - **Rewritable compact discs (CD-RW)**
- **Do not use the following CDs as they may cause the CD player to malfunction:**
  - **3.1 in (8 cm) discs with an adapter**
  - **CDs that are not round**
  - **CDs with a paper label**
  - **CDs that are warped, scratched, or have abnormal edges**
- **This audio system can only play prerecorded CDs. It has no capability to record or burn CDs.**
- **If the CD cannot be played, one of the following messages will be displayed.**

CHECK DISC

- **Confirm that the CD is inserted correctly (the label side is facing up, etc.).**
- **Confirm that the CD is not bent or warped and it is free of scratches.**

PRESS EJECT

This is an error due to excessive temperature inside the player. Remove the CD by pressing the EJECT button. After a short time, reinsert the CD. The CD can be played when the temperature of the player returns to normal.

UNPLAYABLE

The file is unplayable in this audio system (only MP3 or WMA (if so equipped) CD).

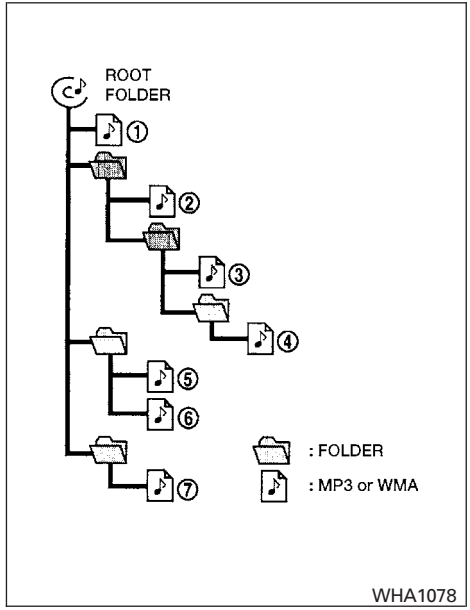
Information Provided by: DEALER E-PROCESS

Compact disc with MP3 or WMA (if so equipped)

Terms

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well-known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD-ROM can reduce the file size by approximately a 10:1 ratio with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn’t hear.
- WMA — Windows Media Audio (WMA)* is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music file. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.
- Sampling frequency — Sampling frequency is the rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- Multisession — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- ID3/WMA Tag — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Artist/song title line on the display.

* Windows® and Windows Media® are registered trademarks and trademarks in the United States of America and other countries of Microsoft Corporation of the USA.



Playback order chart

Playback order

Music playback order of a CD with MP3 or WMA files is as illustrated.

- The names of folders not containing MP3 or WMA files are not shown in the display.

Information Provided by:

- If there is a file in the top level of the disc, “Root Folder” is displayed.
- The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

Specification chart

Supported media			CD, CD-R, CD-RW
Supported file systems			ISO9660 LEVEL1, ISO9660 LEVEL2, Apple ISO, Romeo, Joliet * ISO9660 Level 3 (packet writing) is not supported.
Supported versions*1	MP3	Version	MPEG1, MPEG2, MPEG2.5
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	8 kbps - 320 kbps, VBR
	WMA	Version	WMA7, WMA8, WMA9
		Sampling frequency	32 kHz - 48 kHz
		Bit rate	48 kbps - 192 kbps, VBR
Tag information			ID3 tag VER1.0, VER1.1, VER2.2, VER2.3 (MP3 only)
Folder levels			Folder levels: 8, Max folders: 255 (including root folder), Files: 512 (Max. 255 files for one folder)
Text character number limitation			128 characters
Displayable character codes*2			01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian)

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.

*2 Available codes depend on what kind of media, versions and information are going to be displayed.

Information Provided by:
DEALER E-PROCESS

Troubleshooting guide

Symptom	Cause and Countermeasure
Cannot play	Check if the disc was inserted correctly.
	Check if the disc is scratched or dirty.
	Check if there is condensation inside the player. If there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the CD player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3",".WMA", ".mp3" or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
	Check if the disc is protected by copyright.
Poor sound quality	Check if the disc is scratched or dirty.
	Bit rate may be too low.
It takes a relatively long time before the music starts playing.	If there are many folders or file levels on the MP3/WMA disc, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Moves immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ."mp3"or ".wma", or when play is prohibited by copyright protection, there will be approximately 5 seconds of no sound and then the player will skip to the next song.
Songs do not play back in the desired order	The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

Information Provided by:

USB (Universal Serial Bus) Connection Port (if so equipped)

⚠ WARNING

Do not connect, disconnect, or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

⚠ CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

The vehicle is not equipped with a USB device. USB devices should be purchased separately as necessary.

This system cannot be used to format USB devices. To format a USB device, use a personal computer.

In some jurisdictions, the USB device for the front seats plays only sound without images for regulatory reasons, even when the vehicle is parked.

This system supports various USB connection port devices, USB hard drives and iPod® players. Some USB devices may not be supported by this system.

- Partitioned USB devices may not play correctly.
- Some characters used in other languages (Chinese, Japanese, etc.) may not appear properly in the display. Using English language characters with a USB device is recommended.

General notes for USB use

- Refer to your device manufacturer's owner information regarding the proper use and care of the device.

Notes for iPod® use

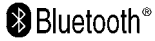
iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

- Improperly plugging in the iPod® may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod® is connected properly.
- An iPod® nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod®.
- An iPod® nano (2nd Generation) will continue to fast-forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the Play Mode is changed while using an iPod® nano (2nd Generation).
- Audiobooks may not play in the same order as they appear on an iPod®.
- Large video files cause slow responses in an iPod®. The vehicle center display may momentarily black out, but will soon recover.
- If an iPod® automatically selects large video files while in the shuffle mode, the vehicle center display may momentarily black out, but will soon recover.

Information Provided by: DEALER E-PROCESS

Bluetooth® streaming audio (if so equipped)

- Some Bluetooth® audio devices may not be recognized by the in-vehicle audio system.
- It is necessary to set up the wireless connection between a compatible Bluetooth® audio device and the in-vehicle Bluetooth® module before using the Bluetooth® audio.
- Operating procedure of the Bluetooth® audio will vary depending on the devices. Refer to how to operate your audio device before using it with this system.
- The Bluetooth® audio may be stopped under the following conditions:
  - Receiving a call on the Hands-Free Phone System.
  - Checking the connection to the hands-free phone.
- Do not place the Bluetooth® audio device in an area surrounded by metal or far away from the in-vehicle Bluetooth® module to prevent tone quality degradation and wireless connection disruption.
- While an audio device is connected through the Bluetooth® wireless connection, the battery power of the device may discharge quicker than usual.
- This system supports the Bluetooth® Audio Distribution Profile (A2DP, AVRCP).



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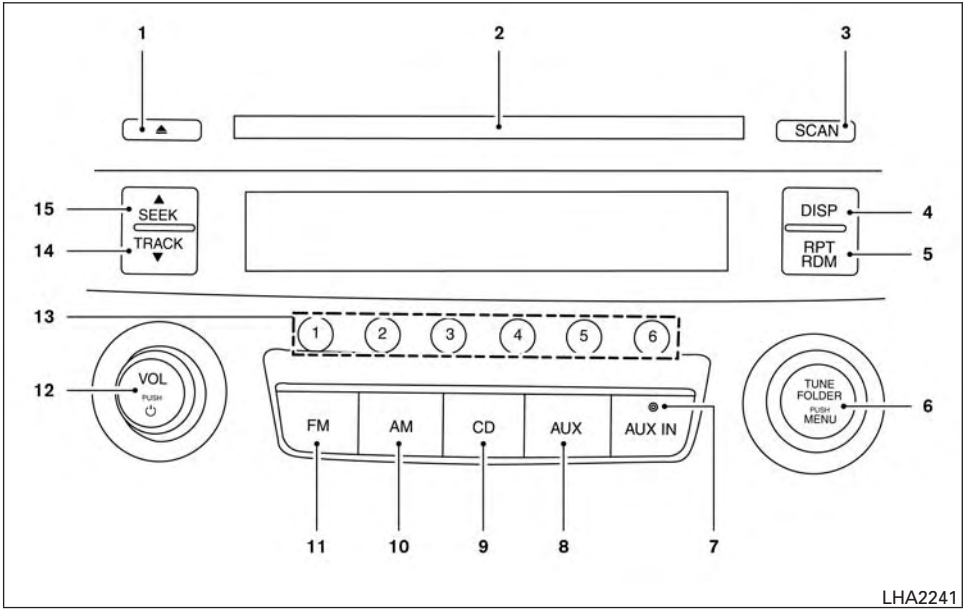


FM/AM RADIO WITH COMPACT DISC (CD) PLAYER (if so equipped)

1. ⏏ CD eject button
2. CD insert slot
3. SCAN button
4. DISP (display) button
5. RPT (repeat) /RDM (random) button
6. MENU button /TUNE/FOLDER knob
7. AUX IN jack
8. AUX button
9. CD button
10. AM button
11. FM button
12. ⏻ (power) button / VOL (volume) control knob
13. Station select (1 - 6) buttons
14. TRACK ▼ button
15. ▲ SEEK button

For additional information, refer to “Audio operation precautions” regarding all operation precautions in this section.

Audio main operation

⏻ (power) button /VOL (volume) control knob

Place the ignition switch in the ACC or ON position, then press the ⏻ (power) button. If you listen to the radio with the engine not running, place the ignition in the ACC position. The mode (radio or CD) that was playing immediately before the system was turned off resumes playing.

Information Provided by:
DEALER E-PROCESS

When no CD is loaded, the radio comes on. Pressing the ⏻ (power) button again turns the system off.

Turn the VOL (volume) control knob to the right to increase volume or to the left to decrease volume.

MENU button (Bass, Treble, Balance, Fade, Speed Sensitive Volume and Clock)

Press the MENU button to change the mode as follows:

Bass → Treble → Balance → Fade → Spd. Sen. Vol. (Speed Sensitive Volume) → AUX IN Volume → Clock → Clock Adjust

To adjust the Bass, Treble, Fade and Balance, press the MENU button until the desired mode appears in the display. Press the ▲ SEEK or TRACK ▼ button to adjust the setting to the desired level (-5 to +5). Balance adjusts the sound between the right and left speakers. Fade adjusts the sound between the front and rear speakers.

Once you have adjusted the sound quality to the desired level, press the MENU button repeatedly until the radio or CD display reappears. Otherwise, the radio or CD display will automatically reappear after about 10 seconds.

Speed Sensitive Volume (SSV) adjusts the volume of the audio system as the vehicle's driving speed changes. It can be set as follows:

OFF → LOW → MID → HIGH

DISP (display) button

Press the DISP (display) button while a CD is playing to change the text shown in the audio display as follows:

For CDs:

Running Time → Album Title: → Artist Name: → Song Title

For MP3 CDs:

Running Time → Folder Title: → Album Title: → Artist Name: → Song Title:

If the text information is too long to fully be displayed on the screen; press and hold the DISP button for longer than 1.5 seconds to scroll through the rest of the text.

Press the DISP (display) button while the radio is playing to toggle the audio display between station number and RDS.

Clock operation

To turn the clock display on or off, press the MENU button repeatedly until "Clock" appears on the display. Turn the TUNE/FOLDER knob to toggle the setting (ON or OFF).

Clock set

1. Press the MENU button. and turn the TUNE/FOLDER knob until "Adjust Clock" appears on the display.
2. Press the MENU button.
3. "Change Hour" will appear on the screen. Turn the TUNE/FOLDER knob to adjust the hours and then press MENU.
4. "Change Minute" will appear on the screen. Turn the TUNE/FOLDER knob to adjust the minutes and then press MENU.

The display will return to the regular clock display after 10 seconds if no further adjustment is performed.

Information Provided by:
DEALER E-PROCESS

FM/AM radio operation

AM and FM buttons

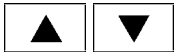
Press the AM button to change the band to AM.

If another audio source is playing when the AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

Press the FM button to change the band as follows:

FM1 → FM2 → FM1

If another audio source is playing when the FM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.



SEEK and TRACK (tuning) buttons

Press the ▲ SEEK button to tune from low to high frequencies and stop at the next broadcasting station.

Press the ▼ TRACK button to tune from high to low frequencies and stop at the next broadcasting station.

Press and hold either button to seek at a faster speed.

SCAN (tuning) button

Press the SCAN button. SCAN illuminates in the display window. Scan tuning begins from low to high frequencies. Scan tuning stops for 5 seconds at each broadcasting station that has sufficient signal strength. When scanning, SCAN blinks in the display. Pressing the SCAN button again during this 5 second period stops scan tuning and the radio remains tuned to that station.

1 to 6 Station memory operations

Twelve stations can be set for the FM band (six for FM1, six for FM2) and six stations can be set for the AM band.

1. Choose the radio band AM, FM1 or FM2 using the AM or FM button.
2. Tune to the desired station using manual, SEEK or SCAN tuning. Press and hold any of the desired station memory buttons (1 – 6) until a beep sound is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

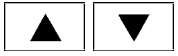
Compact disc (CD) player operation

Place the ignition switch in the ACC or ON position, and carefully insert the compact disc into the slot with the label side up. The compact disc is automatically pulled into the slot and starts to play.

If the radio is already operating, it automatically turns off and the compact disc begins to play.

CD button

When the CD button is pressed with a compact disc loaded and the radio playing, the radio turns off and the last used compact disc starts to play.



SEEK and TRACK (Fast Forward, Rewind) buttons

When the ▲ SEEK button or ▼ TRACK button is pressed while the compact disc is playing, the compact disc plays at an increased speed while fast forwarding or rewinding. When the button is released, the compact disc returns to normal play speed.

SEEK and TRACK buttons

When the ▲ SEEK button is pressed while the compact disc is playing, the next track following the present one starts to play from the beginning. Press the ▲ SEEK button several times

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to skip several tracks. Each time the button is pressed, the CD advances one additional track. The track number appears in the display window. When the last track on the compact disc is skipped, the first track is played.

When the ▼ TRACK button is pressed, the track being played returns to the beginning. Press the ▼ TRACK button several times to skip back several tracks. Each time the button is pressed the CD moves back one track.

RPT (repeat) /RDM (random) button

Press the RPT (repeat) /RDM (random) button while a compact disc is playing to change the play pattern as follows:

CD:

TRACK REPEAT → DISC RANDOM → DISC REPEAT

MP3/WMA CD:

FOLDER REPEAT → TRACK REPEAT → DISC RANDOM → FOLDER RANDOM → DISC REPEAT

TRACK REPEAT: The track that is currently playing will be repeated.

DISC RANDOM: The order of the tracks on the disc will be mixed during play.

DISC REPEAT: The disc currently playing will be repeated.

FOLDER REPEAT: The tracks in the current folder will be repeated.

FOLDER RANDOM: The order of the tracks in the folder will be mixed during play.

SCAN (CDs) button

Press the SCAN button for less than 1.5 seconds to scan all tracks of the current disc for 10 seconds per track. The SCAN icon is flashed during scan mode.

The scan mode is canceled once it scans through all tracks on the disc, or if the SCAN button is pressed during scan mode.

CD EJECT button

When the ⏏ CD EJECT button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

When the ⏏ CD EJECT button is pressed twice with a compact disc loaded, the compact disc will be ejected further for easier CD removal. If the disc is not removed within 20 seconds, the disc will reload.

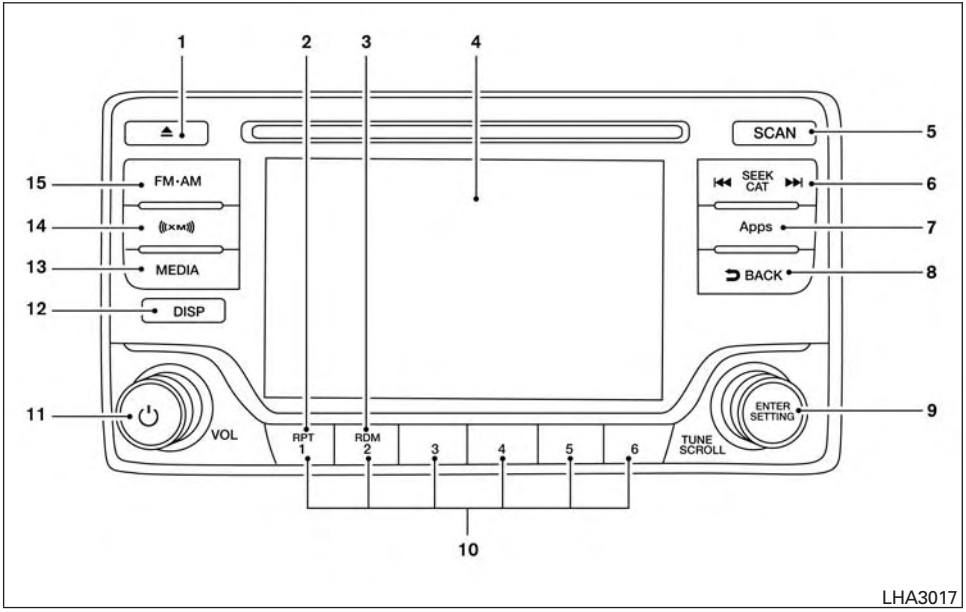
AUX (Auxiliary) button

The AUX IN jack is located on the CD player. The AUX IN audio input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or laptop computers.

Press the AUX button to play a compatible device when it is plugged into the AUX IN jack.

Press the MENU button repeatedly until “AUX IN Volume” appears on the screen to control the incoming volume level of the auxiliary input device. Turn the TUNE/FOLDER knob to adjust the level between 0 and +3.

Information Provided by:



FM/AM/SAT RADIO WITH COMPACT DISC (CD) PLAYER (Type A) (if so equipped)

1. ⏏ CD eject button
2. RPT (repeat) button
3. RDM (random) button
4. Display screen
5. SCAN button
6. ⏮ SEEK/CAT buttons ⏭
7. APPS button
8. ⮌ BACK button
9. ENTER/SETTING button / TUNE/SCROLL knob
10. Station select (1–6) buttons
11. ⏻ (power) button / VOL (volume) knob
12. DISP (display) button
13. MEDIA button
14. XM button*
15. FM•AM button

*No satellite radio reception is available when the XM button is pressed to access satellite radio stations unless optional satellite receiver and antenna are installed and an SiriusXM® Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii or Guam.

For additional information, refer to “Audio operation precautions” regarding all operation precautions in this section.

Information Provided by:

Audio main operation

⏻ (power) button / VOL (volume)

Place the ignition switch in the ACC or ON position and press the ⏻ (power) button while the system is off to call up the mode (radio, CD, AUX, Bluetooth® audio, USB or iPod®) that was playing immediately before the system was turned off.

To turn the system off, press the ⏻ (power) button.

Turn the VOL (volume) control knob to adjust the volume.

This vehicle may be equipped with Speed Sensitive Volume. When this feature is active, the audio volume changes as the driving speed changes.

ENTER/SETTING button

Press the ENTER/SETTING button to show the Settings screen on the display. Turn the TUNE/SCROLL knob to navigate the options and then press the ENTER/SETTING button to make a selection.

Audio		
	Bass	Adjusts the bass to the desired level.
	Treble	Adjusts the treble to the desired level.
	Balance	Adjusts the balance to the desired level. Balance adjusts the sound level between the left and right speakers.
	Fade	Adjusts the fade to the desired level. Fade adjusts the sound level between the front and rear speakers.
	Speed Sens Vol. (Speed Sensitive Volume)	Adjusts the speed sensitive volume function, which increases the volume of the audio system as the speed of the vehicle increases. Set to “OFF” to disable the feature. The higher the setting, the more the volume increases in relation to vehicle speed.
	AUX Vol.	Choose a setting from 0 to +3 to control the boost of incoming auxiliary device volume. A setting of 0 provides no additional boost in volume. A setting of +3 provides the greatest boost in volume.
	Brightness and Contrast	Adjust the brightness or contrast to adjust the appearance of the display screen.
	Clock adjust	Press the ENTER/SETTING button to highlight the hours or minutes and then use the TUNE/SCROLL knob to adjust the value. Press the ENTER/SETTING button again to set the value.
	On-Screen Clock	Toggles ON or OFF the clock display on the upper right corner of the display screen.
	RDS Display	Toggles ON or OFF the RDS information displayed on the screen while the radio is playing.
	Language	Select the desired language for the system from the available options.

Bass, treble, balance and fade can also be adjusted by pressing the ENTER/SETTING button and turning the TUNE/SCROLL control knob to select the item to adjust. When the desired item is shown on the display, turn the tuning to adjust and then press the ENTER/SETTING button until the display returns to the main audio screen. If the button is not pressed for approximately 10 seconds, the radio or CD display will automatically reappear.

Information Provided by:
DEALER E-PROCESS

APPS button

Press the APPS button to launch the Smartphone Integration Mode. For additional information, refer to "NissanConnect℠ Mobile Apps" in this section regarding this feature.

For additional information, refer to "Bluetooth® Hands-Free Phone system without Navigation" in this section regarding connecting your phone.

FM/AM/SAT radio operation

FM·AM button

Press the FM·AM button to change the band as follows:

AM → FM1 → FM2 → AM

If another audio source is playing when the FM·AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

The FM stereo indicator (STEREO) is shown on the screen during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.

XM band select

Pressing the AUX button will change the band as follows:

USB → XM1* → XM2* → XM3* → AUX → USB

When the AUX button is pressed while the ignition switch is in the ACC or ON position, the radio will come on at the station last played.

The last station played will also come on when the VOL/ON·OFF control knob is pressed ON.

*When the AUX button is pressed, the satellite radio mode will be skipped unless an optional satellite receiver and antenna are installed and a SiriusXM® Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii and Guam.

If a compact disc is playing when the AUX button is pressed, the compact disc will automatically be turned off and the last radio station played will come on.

TUNE/SCROLL knob (Tuning)

Turn the TUNE/SCROLL knob to the left or right for manual tuning.

SEEK and TRACK (tuning) buttons

Press the ▲ SEEK button to tune from low to high frequencies and stop at the next broadcasting station.

Press the ▼ TRACK button to tune from high to low frequencies and stop at the next broadcasting station.

Press and hold either button to seek at a faster speed.

SCAN (tuning) button

Press the SCAN button. SCAN illuminates in the display window. Scan tuning begins from low to high frequencies. Scan tuning stops for 5 seconds at each broadcasting station that has sufficient signal strength. When scanning, SCAN blinks in the display. Pressing the SCAN button again during this 5 second period stops scan tuning and the radio remains tuned to that station.

1 to 6 Station memory operations

Six stations can be set for the AM band. Twelve stations can be set for the FM band (six for FM1, six for FM2).

1. Choose the radio band AM, FM1 or FM2 using the FM·AM select button.

Information Provided by: DEALER E-PROCESS

2. Tune to the desired station using the ⏮ SEEK button or the ⏭ TRACK button. Press and hold any of the desired station memory buttons (1 – 6) until the preset number is updated on the display and a beep is heard.
3. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

Compact disc (CD) player operation

If the radio is already operating, it automatically turns off and the compact disc begins to play.

MEDIA button

With a CD loaded, press the MEDIA button until the CD mode is displayed on the screen.

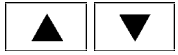
CD/MP3 display mode

While listening to an MP3/WMA CD, certain text may be displayed on the screen if the CD has been encoded with text information. Depending on how the MP3/WMA CD is encoded, information such as Artist, Song and Folder will be displayed.

The track number and the total number of tracks in the current folder or on the current disc are displayed on the screen as well.

SEEK and TRACK (Fast Forward, Rewind) buttons

When the ▲ SEEK button or ▼ TRACK button is pressed while the compact disc is playing, the compact disc plays at an increased speed while fast forwarding or rewinding. When the button is released, the compact disc returns to normal play speed.



SEEK and TRACK buttons

When the ▲ SEEK button is pressed while the compact disc is playing, the next track following the present one starts to play from the beginning. Press the ▲ SEEK button several times to skip several tracks. Each time the button is pressed, the CD advances one additional track. The track number appears in the display window. When the last track on the compact disc is skipped, the first track is played.

When the ▼ TRACK button is pressed, the track being played returns to the beginning. Press the ▼ TRACK button several times to skip back several tracks. Each time the button is pressed the CD moves back one track.

TUNE/SCROLL knob (MP3/WMA CD only)

If a MP3/WMA CD with multiple folders is playing, turn the TUNE/FOLDER knob to change folders. Turn the knob to the left to skip back a folder. Turn the knob to the right to skip ahead a folder.

RPT (repeat) button

When the RPT (repeat) button is pressed while a compact disc is playing, the play pattern can be changed as follows:

CD:

1 Track Repeat ⟷ OFF

CD with MP3 or WMA:

1 Folder Repeat → 1 Track Repeat → OFF

1 Track Repeat: the current track will be repeated.

1 Folder Repeat: the current folder will be repeated.

OFF: No repeat play pattern is applied. The indicator on the display will turn off.

The current play pattern of the CD is displayed on the screen unless no pattern is applied.

Information Provided by:

RDM (random) button

When the RDM (random) button is pressed while a compact disc is playing, the play pattern can be changed as follows:

CD:

1 Disc Random ⟷ OFF

CD with MP3 or WMA:

1 Disc Random → 1 Folder Random → OFF

1 Disc Random: all tracks on the disc will be played randomly.

1 Folder Random: all tracks in the current folder will be played randomly.

OFF: No random play pattern is applied. The indicator on the display will turn off.

The current play pattern of the CD is displayed on the screen unless no pattern is applied.

CD EJECT button

When the ⏏ CD EJECT button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

When the ⏏ CD EJECT button is pressed twice with a compact disc loaded, the compact disc will be ejected further for easier CD removal. If the disc is not removed within 20 seconds, the disc will reload.

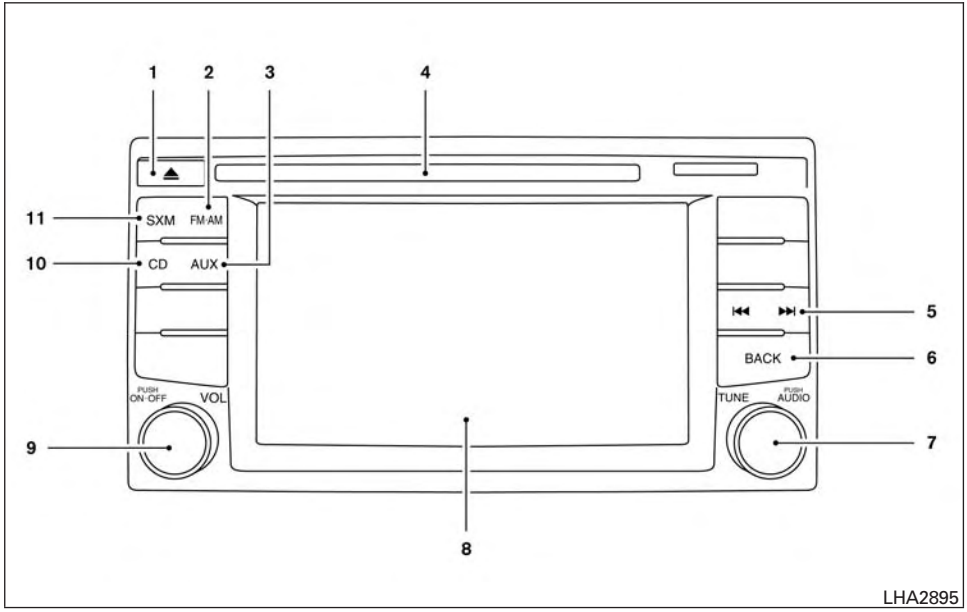
Additional features

For additional information, refer to “iPod® player operation without Navigation System” regarding the iPod® player available with this system in this section.

For additional information, refer to “USB (Universal Serial Bus) Connection Port (models without Navigation System)” regarding the USB connection port available with this system in this section.

For additional information, refer to “Bluetooth® streaming audio without Navigation System” about the Bluetooth® audio interface available with this system in this section.

Information Provided by:
DEALER E-PROCESS



LHA2895

FM/AM/SAT RADIO WITH COMPACT DISC (CD) PLAYER (Type B) (if so equipped)

1. ⏏ CD eject button
2. FM-AM button
3. AUX button
4. CD insert slot
5. ⏮ Backward seek button and ⏭ Forward seek button
6. BACK button
7. AUDIO button / TUNE knob
8. Display screen
9. ON-OFF button / VOL (volume) control knob
10. CD button
11. SXM button*

*No satellite radio reception is available when the SXM button is pressed to access satellite radio stations unless optional satellite receiver and antenna are installed and an SiriusXM® Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii and Guam.

For additional information, refer to “Audio operation precautions” regarding all operation precautions in this section.

Audio main operation

ON-OFF button / VOL (volume) control knob

Place the ignition switch in the ACC or ON position and press the ON-OFF button while the system is off to call up the mode (radio, CD, AUX, Bluetooth® audio, USB or iPod®) that was playing immediately before the system was turned off.

To turn the system off, press the ON-OFF button.

Information Provided by:

Turn the VOL (volume) control knob to adjust the volume.

This vehicle may be equipped with Speed Sensitive Volume. When this feature is active, the audio volume changes as the driving speed changes.

Audio settings

1. Press the [APPS] button.
2. Touch the “Settings” key.
3. Touch the “Audio” key.

Use the touch-screen to adjust the following items to the desired setting:

Audio		
	Bass	Adjusts the bass to the desired level.
	Treble	Adjusts the treble to the desired level.
	Balance	Adjusts the balance to the desired level. Balance adjusts the sound level between the left and right speakers.
	Fade	Adjusts the fade to the desired level. Fade adjusts the sound level between the front and rear speakers.
	Speed Sensitive Vol.	Adjusts the speed sensitive volume function, which increases the volume of the audio system as the speed of the vehicle increases. Set to “OFF” to disable the feature. The higher the setting, the more the volume increases in relation to vehicle speed.
	AUX Volume Level/AUX Level	Controls the volume level of incoming sound when an auxiliary device is connected to the system. Available options are Low (Quiet), Medium, and High (Loud).

Bass, treble, balance and fade can also be adjusted by pressing the AUDIO button and turning the TUNE knob to select the item to adjust. When the desired item is shown on the display, turn the tuning to adjust and then press the AUDIO button until the display returns to the main audio screen. If the button is not pressed for approximately 10 seconds, the radio or CD display will automatically reappear.

Information Provided by:
DEALER E-PROCESS

SXM settings

To view the SXM settings:

1. Press the [APPS] button.
2. Touch the “Settings” key.
3. Touch the “SXM” key.

The signal strength, activation status and other information are displayed on the screen.

FM/AM/SAT radio operation

FM·AM button

Press the FM·AM button to change the band as follows:

AM → FM1 → FM2 → AM

If another audio source is playing when the FM·AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

The FM stereo indicator (STEREO) is shown on the screen during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.

SXM band select

Pressing the SXM button will change the band as follows:

SXM1* → SXM2* → SXM3* → SXM1* (satellite, if so equipped)

When the SXM button is pressed while the ignition switch is in the ACC or ON position, the radio will come on at the last station played.

The last station played will also come on when the ON-OFF button is pressed to turn the radio on.

*When the SXM button is pressed, the satellite radio mode will be skipped unless an optional satellite receiver and antenna are installed and a SiriusXM® Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii and Guam.

If a compact disc is playing when the SXM button is pressed, the compact disc will automatically be turned off and the last radio station played will come on.

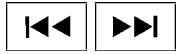
While the radio is in SXM mode, the operation can be controlled through the touch-screen. Touch the “Channels” key to display a list of channels. Touch a channel displayed on the list to change to that channel. Touch the “Categories” key to display a list of categories. Touch a category displayed on the list to display options within that category.

Tuning with the touch-screen

When in AM or FM mode, the radio can be tuned using the touch-screen. To bring up the visual tuner, touch the “Tune” key on the lower right corner of the screen. A screen appears with a bar running from low frequencies on the left to high frequencies on the right. Touch the screen at the location of the frequency you wish to tune and the station will change to that frequency. To return to the regular radio display screen, touch the “OK” key.

Tuning with the TUNE knob

The radio can also be manually tuned using the TUNE knob. When in FM or AM mode, turn the TUNE knob to the left for lower frequencies or to the right for higher frequencies. When in SXM mode, turn the TUNE knob to change the channel.

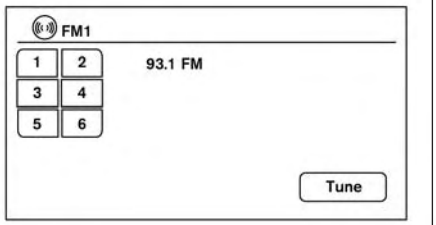


SEEK tuning

When in FM or AM mode, press the ⏮ or ⏭ seek buttons to tune from low to high or high to low frequencies and to stop at the next broadcasting station.

When in SXM mode, press the ⏮ or ⏭ seek buttons to change the category.

Information Provided by:



LHA2899

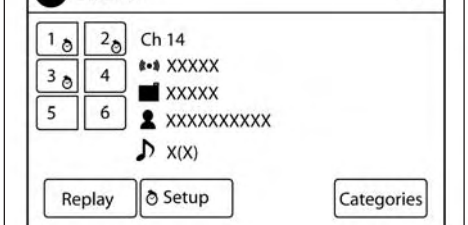
1 to 6 Station memory operations

Twelve stations can be set for the FM band (six for FM1, six for FM2) and six stations can be set for the AM band. Eighteen stations can be set for the SXM band (six for SXM1, six for SXM2 & six SXM3).

1. Choose the radio band AM, FM1 or FM2 using the FM·AM select button or choose the radio band SXM1, SXM2 & SXM3 using the SXM button.
2. Tune to the desired station using manual or seek tuning. Press and hold any of the desired station memory buttons (1 – 6) until a beep sound is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

Presets can also be selected by touching the desired preset number on the screen.



LHA3085

Smart Favorites Preset Setup (if so equipped):

The Smart Favorites feature allows the user to designate presets, within the SXM1, SXM2 and SXM3 bands, as their Smart Favorites. When any of the Smart Favorite presets are selected, the current track on that station will play from the beginning of the song.

Information Provided by:
DEALER E-PROCESS

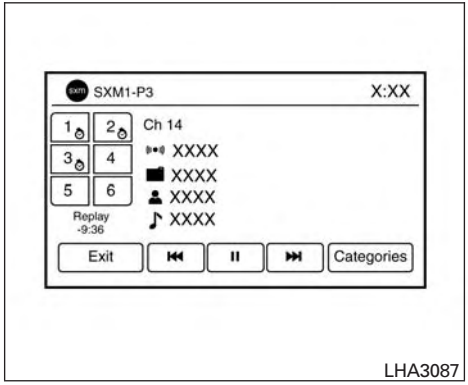
To program a Smart Favorite preset:

1. Press the SXM button.
2. Touch the “Setup” key.
3. Touch the “Tune Start” key to activate (ON) or deactivate (OFF) Smart Favorites.
4. Touch the “Add Preset” key to select an available preset.

For additional information, refer to “1 to 6 station memory operations” in this section regarding preset memory options.

NOTE:

▪ Smart Favorites will start functioning only after the audio unit is turned on for a few minutes.
▪ Tune Start is supported for music channels only.



Replay Screen

The Replay Screen gives the user the ability to replay, skip, pause or rewind the currently aired track.

When the “Replay” key is pressed, the Replay Screen is prompted.

REPLAY

To replay a track from the beginning, press the ⏮ seek button. The user can continue to press the ⏮ seek button to replay previous songs, but can only go back as far as the system permits. The system will warn the user when they cannot skip any further back by displaying “At the End” in the bottom left corner of the screen.

SKIP

To skip a track, press the ⏭ track button. “Live” will appear in the bottom left corner of the screen indicating the difference from play time to live audio.

PAUSE

To pause a track, press the ⏸ pause button.

Information Provided by:
DEALER E-PROCESS

REWIND/ FAST FOR-WARD To rewind/ fast forward a track, hold the ⏮ or ⏭ seek/ track button.

Compact disc (CD) player operation

If the radio is already operating, it automatically turns off and the compact disc begins to play.

CD/MP3 display mode

CD button

When the CD button is pressed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the CD button is pressed with a compact disc loaded and the radio playing, the radio will automatically be turned off and the compact disc will start to play.

Menu item		
CD/MP3 display mode		While listening to a CD or an MP3/WMA CD, certain text may be displayed (when a CD encoded with text is being used). Depending on how the CD or MP3/WMA CD is encoded, the text is displayed listing the artist, album and song title. There are other keys displayed on the screen when a CD is playing:
	Random/Mix	Touch the “Random” key to apply a random play pattern to the CD. If an MP3 CD is playing, touching “Random” or alternates between Random Folder, and Random All. This text will appear on the display. To cancel Random/Mix mode, touch the “Random” or “Mix” key until the key is no longer highlighted.
	Repeat	Touch the “Repeat” key to apply a repeat play pattern to the CD. If an MP3 CD is playing, touching “Repeat” alternates between repeating the current song and repeating the current folder. This text will appear on the display. To cancel Repeat mode, touch the “Repeat” key until the key is no longer highlighted
	Browse	Touch the “Browse” key to display the titles on the CD in list format. Touch the title of a song in the list to begin playing that song. If an MP3 CD is playing, touching the “Browse” key will also list the folders on the disc. Follow the procedure for selecting a song with the touch-screen to choose a folder.

Information Provided by: DEALER E-PROCESS

SEEK (Reverse or Fast Forward) buttons

Press and hold the ⏮ or ⏭ seek buttons for 1.5 seconds while the compact disc is playing to reverse or fast forward the track being played. The compact disc plays at an increased speed while reversing or fast forwarding. When the button is released, the compact disc returns to normal play speed.

SEEK buttons

Press the ⏮ seek button while a CD or MP3/WMA CD is playing to return to the beginning of the current track. Press the ⏮ seek button several times to skip backward several tracks.

Press the ⏭ seek button while a CD or MP3/WMA CD is playing to advance one track. Press the ⏭ seek button several times to skip forward several tracks. If the last track on a CD is skipped, the first track on the disc is played. If the last track in a folder of an MP3/WMA CD is skipped, the first track of the next folder is played.

AUX button

The AUX IN audio input port accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or a laptop computer. Press the AUX button to play a compatible device plugged into the AUX IN port.

CD EJECT button

When the ⏏ CD EJECT button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

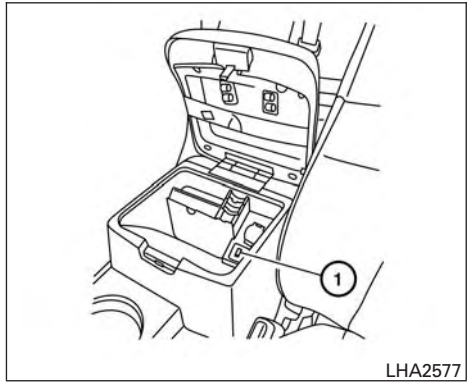
If the disc is not removed within 10 seconds, the disc will reload.

Additional features

For additional information, refer to “iPod® player operation with Navigation System” regarding the iPod® player available with this system in this section.

For additional information, refer to “USB (Universal Serial Bus) Connection Port (models with Navigation System)” regarding the USB (Universal Serial Bus) Connection Port available with this system in this section.

For additional information, refer to “Bluetooth® streaming audio with Navigation System” regarding the Bluetooth® audio interface available with this system in this section.



USB (Universal Serial Bus) CONNECTION PORT (models without Navigation System) (if so equipped)

Connecting a device to the USB Connection Port

⚠WARNING

Do not connect, disconnect, or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

Information Provided by:
DEALER E-PROCESS

⚠CAUTION

- **To avoid damage and loss of function when using a USB device, note the following precautions.**
- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

The USB connection port is located in the center console①. Insert the USB device into the connection port.

When a compatible storage device is plugged into the connection port, compatible audio files on the storage device can be played through the vehicle's audio system.

Audio file operation

MEDIA button

Place the ignition switch in the ON or ACC position and press the MEDIA button to switch to the USB input mode. If a CD is playing or another audio source is plugged in through the AUX IN jack, the MEDIA button toggles between the three sources.

Play information

Information about the audio files being played can be displayed on the display screen of the vehicle's audio system. Depending on how the audio files are encoded, information such as Folder, Song and Artist will be displayed.

The track number and number of total tracks in the folder are displayed on the screen as well.

SEEK/CAT (Reverse or Fast Forward) buttons

Press and hold the ⏮ or ⏭ SEEK/CAT buttons for 1.5 seconds while an audio file on the USB device is playing to reverse or fast forward the track being played. The track plays at an increased speed while reversing or fast forwarding. When the button is released, the audio file returns to normal play speed.

SEEK/CAT and TRACK buttons

Press the SEEK/CAT button ⏮ while an audio file on the USB device is playing to return to the beginning of the current track. Press the SEEK/CAT button ⏮ several times to skip backward several tracks.

Press the SEEK/CAT button ⏭ while an audio file on the USB device is playing to advance one track. Press the SEEK/CAT button ⏭ several times to skip forward several tracks. If the last track in a folder on the USB device is skipped, the first track of the next folder is played.

RDM (random) button

When the RDM (random) button is pressed while an audio file on the USB device is playing, the play pattern can be changed as follows:

All Random → 1 Folder Random → OFF

All Random: all tracks on the USB device will be played randomly.

1 Folder Random: all tracks in the current folder will be played randomly.

OFF: No random play pattern is applied. The indicator on the display will turn off.

Information Provided by: DEALER E-PROCESS

The current play pattern of the USB device is displayed on the screen unless no pattern is applied.

RPT (repeat) button

When the RPT (repeat) button is pressed while an audio file on the USB device is playing, the play pattern can be changed as follows:

1 Folder Repeat → 1 Track Repeat → OFF

1 Track Repeat: the current track will be repeated.

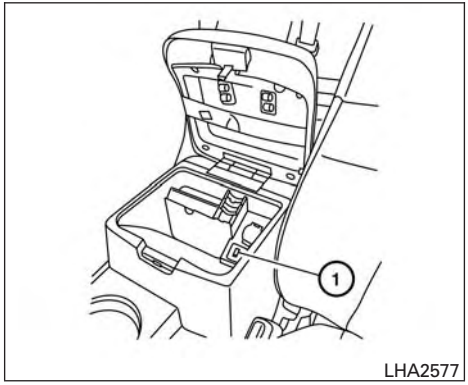
1 Folder Repeat: the current folder will be repeated.

OFF: No repeat play pattern is applied. The indicator on the display will turn off.

The current play pattern of the USB device is displayed on the screen unless no pattern is applied.

TUNE/SCROLL knob

If there are multiple folders with audio files on the USB device, turn the TUNE/SCROLL knob to change folders. Turn the knob to the left to skip back a folder. Turn the knob to the right to skip ahead a folder. If there is only one folder of audio files on the USB device, turning the TUNE/SCROLL knob in either direction will return to the first track on the USB device.



USB (Universal Serial Bus) CONNECTION PORT (models with Navigation System)

Connecting a device to the USB Connection Port

⚠ WARNING

Do not connect, disconnect, or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

⚠ CAUTION

- **To avoid damage and loss of function when using a USB device, note the following precautions.**
- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

The USB connection port is located in the center console①. Insert the USB device into the connection port.

When a compatible storage device is plugged into the connection port, compatible audio files on the storage device can be played through the vehicle's audio system.

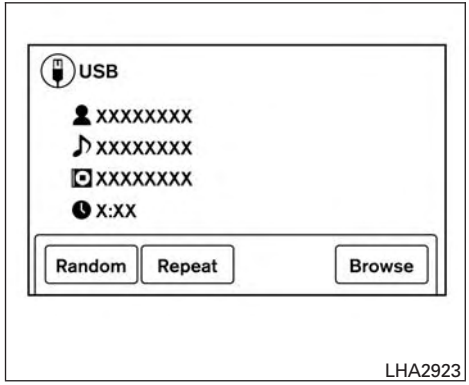
Information Provided by:

Audio file operation

AUX (auxiliary) button

Place the ignition switch in the ON or ACC position and press the AUX button to switch to the USB input mode. If another audio source is playing and a USB connection port device is inserted, press the AUX button until the center display changes to the USB memory mode.

If the system has been turned off while the USB memory was playing, push the ON-OFF/VOL control knob to restart the USB memory.



Play information

Information about the audio files being played is shown on the display screen of the vehicle's audio system. Touch "Browse" to display the list of folders and files on the USB device. Touch the name of a song on the screen to begin playing that song.

Seeking buttons

Press the ⏮ seeking button while an audio file on the USB device is playing to return to the beginning of the current track. Press the ⏮ seeking button several times to skip backward several tracks.

Press the ⏭ seeking button while an audio file on the USB device is playing to advance one track. Press the ⏭ seeking button several times to skip forward several tracks. If the last track in a folder on the USB device is skipped, the first track of the next folder is played.

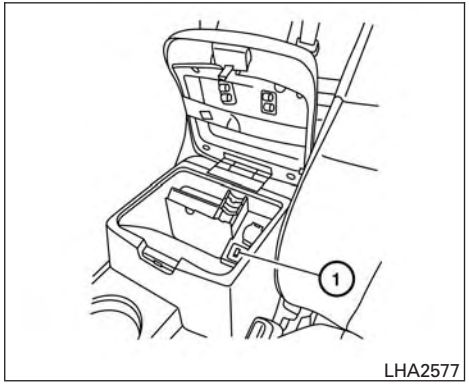
Random and repeat play mode

While files on a USB device are playing, the play pattern can be altered so that songs are repeated or played randomly.

Random
Touch the "Random" key to apply a random play pattern to the USB device. When the random mode is active, the icon is displayed to the left of the song title or album name to denote which random pattern is applied. To cancel Random mode, touch the "Random" key until no icon is displayed.

Repeat
Touch the "Repeat" key to apply a repeat play pattern to the USB device. When the repeat mode is active, the icon is displayed to the left of the song title or album name to denote which repeat pattern is applied. To cancel Repeat mode, touch the "Repeat" key until no icon is displayed.

Information Provided by:
DEALER E-PROCESS



iPod®* PLAYER OPERATION WITHOUT NAVIGATION SYSTEM (if so equipped)

Connecting iPod®

⚠ WARNING

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

⚠ CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

For additional information, refer to your device manufacturer's owner information regarding the proper use and care of the device.

To connect an iPod® to the vehicle so that the iPod® can be controlled with the audio system controls and display screen, use the USB port located in the center console ①. Connect the iPod®-specific end of the cable to the iPod® and the USB end of the cable to the USB port on the vehicle. If your iPod® supports charging via a USB connection, its battery will be charged while connected to the vehicle with the ignition switch in the ACC or ON position.

While connected to the vehicle, the iPod® can only be operated by the vehicle audio controls.

To disconnect the iPod® from the vehicle, remove the USB end of the cable from the USB port on the vehicle, then remove the cable from the iPod®.

* iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

Compatibility

The following models are compatible:

- iPod® 5th Generation (firmware version 1.3 or later)
- iPod® Classic (80GB) (firmware version 1.1.2PC or later)
- iPod® Classic (120GB) (firmware version 2.0.1PC or later)
- iPod® nano - 1st generation (firmware version 1.3.1 or later)
- iPod® nano - 2nd generation (firmware version 1.1.3 or later)
- iPod® nano - 3rd generation (firmware version 1.1.3PC or later)
- iPod® nano - 4th generation (firmware version 1.0PC or later)

Information Provided by:

- iPod® nano - 5th generation (8GB) (firmware version 1.0.2PC or later)
- iPod® nano - 5th generation (16GB) (firmware version 1.0.1PC or later)
- iPod® nano - 6th generation (8GB) (firmware version 1.2PC or later)
- iPod® nano - 6th generation (8GB) (firmware version 1.1PC or later)
- iPod® Touch - 1st generation (firmware version 2.2.1 or later)
- iPod® Touch - 2nd generation (firmware version 2.2.1 or later)
- iPod® Touch - 3rd generation (firmware version 3.1.3 or later)
- iPod® Touch - 4th generation (firmware version 4.3.5 or later)
- iPhone® 3G (firmware version 4.1 or later)
- iPhone® 3GS (firmware version 4.3 or later)
- iPhone® 4 (firmware version 5.0 or later)
- iPhone® 4S (firmware version 5.1 or later)
- iPad® (firmware version 4.3.2 or later)
- iPad® 2 (firmware version 4.3.3 or later)

Make sure that your iPod® firmware is updated to the version indicated above.

Audio main operation

Place the ignition switch to the ACC or ON position. Then, press the CD·AUX or MEDIA button repeatedly to switch to the iPod® mode.

If the audio system is turned off while the iPod® is playing, the iPod® plays when the audio system is turned back on.

If the audio system is off, pressing the CD·AUX or MEDIA button turns the audio system on and plays the iPod®.

If the audio system is on, the audio system automatically begins playing tracks from the iPod® when it is plugged into the port.

MEDIA button

Press the MEDIA button while the iPod® is connected to show the iPod® operation menu on the audio display. Scroll through the menu list using the TUNE/SCROLL knob. Press ENTER/SETTING button to select a menu item. Items in the iPod® menu appear on the display in the following order:

- Now playing
- Playlists
- Artists
- Albums
- Songs
- Podcasts
- Genres
- Composers
- Audiobooks
- Shuffle songs

For additional information, refer to the iPod® Owner's Manual regarding each item.

SEEK/CAT and TRACK buttons

When the ⏮ SEEK/CAT button or ⏭ TRACK button is pressed for less than 1.5 seconds while the iPod® is playing, the next track or the beginning of the current track on the iPod® will be played.

When the ⏮ SEEK/CAT button or ⏭ TRACK button is pressed for more than 1.5 seconds while the iPod® is playing, the iPod® will play while fast forwarding or rewinding. When the button is released, the iPod® will return to the normal play speed.

Information Provided by: DEALER E-PROCESS

REPEAT (RPT)

When the RPT button is pressed while a track is being played, the play pattern can be changed as follows:

Repeat Off → 1 Track Repeat → All Repeat → Repeat Off

1 Track Repeat: the current track will be repeated.

All Repeat: all songs in the current list are repeated.

Repeat Off: no repeat play pattern is applied.

RANDOM (RDM)

When the RDM button is pressed while a track is being played, the play pattern can be changed as follows:

Shuffle Off → Track Shuffle → Album Shuffle → Shuffle Off

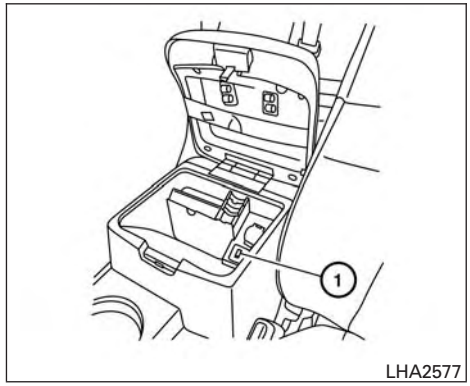
Track Shuffle: the tracks in the current list will be played randomly.

Album Shuffle: the albums in the current list will be played randomly.

Shuffle Off: no random play pattern is applied.

BACK button

When the BACK button is pressed, it returns to the previous menu.



LHA2577

iPod®* PLAYER OPERATION WITH NAVIGATION SYSTEM (if so equipped)

Connecting iPod®

⚠WARNING

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

Information Provided by:
DEALER E-PROCESS

⚠CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

For additional information, refer to your device manufacturer's owner information regarding the proper use and care of the device.

To connect an iPod® to the vehicle so that the iPod® can be controlled with the audio system controls and display screen, use the USB port located in the center console ①. Connect the iPod®-specific end of the cable to the iPod® and the USB end of the cable to the USB port on the vehicle. If your iPod® supports charging via a USB connection, its battery will be charged while connected to the vehicle with the ignition switch in the ACC or ON position.

While connected to the vehicle, the iPod® can only be operated by the vehicle audio controls.

To disconnect the iPod® from the vehicle, remove the USB end of the cable from the USB port on the vehicle, then remove the cable from the iPod®.

* iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

Compatibility

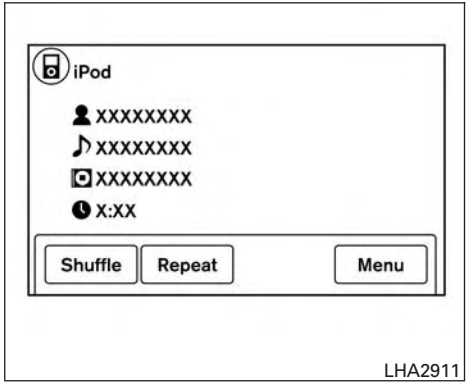
The following models are compatible:

- iPod® Classic 5th generation (firmware version 1.3.0 or later)
- iPod® Classic 6th generation (firmware version 2.0.1 or later)
- iPod® Classic 7th generation (firmware version 2.0.4 or later)
- iPod® Touch 2nd generation (firmware version 4.2.1 or later)*
- iPod® Touch 3rd generation (firmware version 5.1 or later)
- iPod® Touch 4th generation (firmware version 5.1 or later)
- iPod® nano - 1st generation (firmware version 1.3.1 or later)
- iPod® nano - 2nd generation (firmware version 1.1.3 or later)
- iPod® nano - 3rd generation (firmware version 1.1.3 or later)
- iPod® nano - 4th generation (firmware version 1.0.4 or later)
- iPod® nano - 5th generation (firmware version 1.0.2 or later)
- iPod® nano - 6th generation (firmware version 1.1 or later)
- iPhone® 3G (firmware version 4.2.1 or later)
- iPhone® 3GS (firmware version 5.1 or later)
- iPhone® 4 (firmware version 5.1 or later)
- iPhone® 4S (firmware version 5.1 or later)

* Some features of this iPod® may not be fully functional.

Make sure that your iPod® firmware is updated to the version indicated above.

Information Provided by:
DEALER E-PROCESS



LHA2911

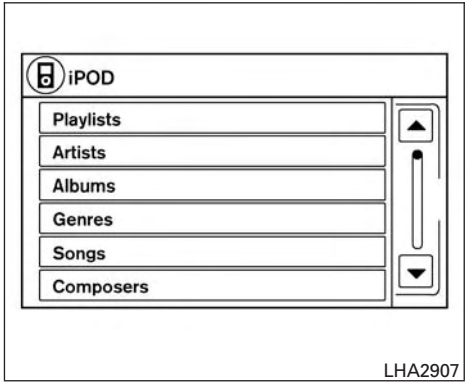
Audio main operation

Place the ignition switch in the ACC or ON position. Press the AUX button repeatedly to switch to the iPod® mode.

If the system has been turned off while the iPod® was playing, pressing the VOL/ON·OFF control knob will start the iPod®.

AUX button

When the AUX button is pressed with the system off and the iPod® connected, the system will turn on. If another audio source is playing and the iPod® is connected, press the AUX button repeatedly until the center display changes to the iPod® mode.



LHA2907

Interface

The interface for iPod® operation shown on the vehicle's audio system display screen is similar to the iPod® interface. Use the touch-screen, BACK button or the scrolling knob to navigate the menus on the screen.

When the iPod® is playing, touch the "Menu" key to bring up the iPod® interface.

Depending on the iPod® model, the following items may be available on the menu list screen. For additional information, refer to the iPod® Owner's Manual regarding each menu item.

- Playlists

Information Provided by:

- Artists
- Albums
- Genres
- Songs
- Composers
- Audiobooks
- Podcasts

Shuffle and repeat play mode

While the iPod® is playing, the play pattern can be altered so that songs are repeated or played randomly.

Shuffle

Touch the “Shuffle” key to apply a random play pattern to the iPod®. When the Shuffle mode is active, the text is illuminated. Touching the “Shuffle” key once more will display the “Shuffle songs” key. To cancel Shuffle mode, touch the “Shuffle” key again until the text is no longer illuminated.

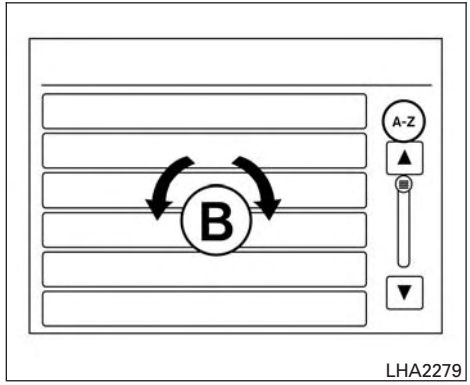
Repeat

Touch the “Repeat” key to apply a repeat play pattern to the iPod®. When the repeat mode is active, the text is illuminated. Touching the “Repeat” key once more will display the “Repeat song” key. To cancel Repeat mode, touch the “Repeat” key again until the text is no longer illuminated.

SEEK/CAT and TRACK buttons

When the ⏮ SEEK/CAT button or ⏭ TRACK button is pressed for less than 1.5 seconds while the iPod® is playing, the next track or the beginning of the current track on the iPod® will be played.

When the ⏮ SEEK/CAT button or ⏭ TRACK button is pressed for more than 1.5 seconds while the iPod® is playing, the iPod® will play while fast forwarding or rewinding. When the button is released, the iPod® will return to the normal play speed.



LHA2279

Scrolling menus

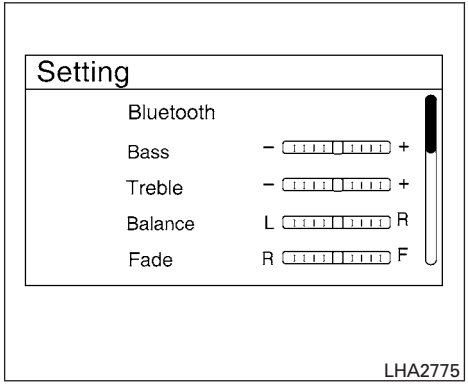
While navigating long lists of artists, albums or songs in the music menu, it is possible to scroll the list by the first character in the name. To activate character indexing, touch and hold the “A-Z” key in the upper right corner of the screen. Turn the TUNE/SCROLL knob to choose the number or letter to jump to in the list and then press the ENTER/AUDIO button.

If no character is selected after 2 seconds, the display returns to normal.

Information Provided by:
DEALER E-PROCESS

BLUETOOTH® STREAMING AUDIO WITHOUT NAVIGATION SYSTEM (if so equipped)

If you have a compatible Bluetooth® audio device that is capable of playing audio files, the device can be connected to the vehicle's audio system so that the audio files on the device play through the vehicle's speakers.



Connecting Bluetooth® audio

To connect your Bluetooth® audio device to the vehicle, follow the procedure below:

1. Press the SETTING button.
2. Select the "Bluetooth" key.
3. Select the "Add Phone or Device" key. This same screen can be accessed to remove, replace or select a different Bluetooth® device.
4. The system acknowledges the command and asks you to initiate connecting from the phone handset. The connecting procedure of the cellular phone varies according to each cellular phone model. Refer to the cellular phone Owner's Manual for details. You can also visit www.nissanusa.com/bluetooth for instructions on connecting NISSAN recommended cellular phones.

Audio main operation

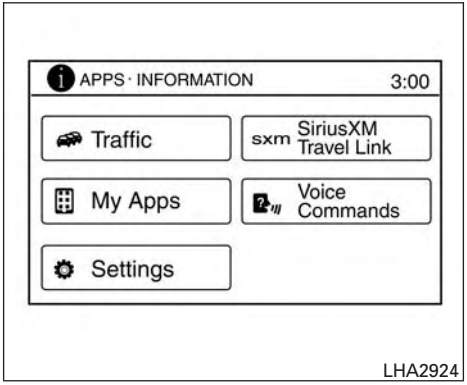
To switch to the Bluetooth® audio mode, press the MEDIA button repeatedly until the Bluetooth® audio mode is displayed on the screen.

The controls for the Bluetooth® audio are displayed on the screen. Use the Preset 3 button for play and the Preset 4 button for pause.

BLUETOOTH® STREAMING AUDIO WITH NAVIGATION SYSTEM (if so equipped)

If you have a compatible Bluetooth® audio device that is capable of playing audio files, the device can be connected to the vehicle's audio system so that the audio files on the device play through the vehicle's speakers.

Information Provided by:

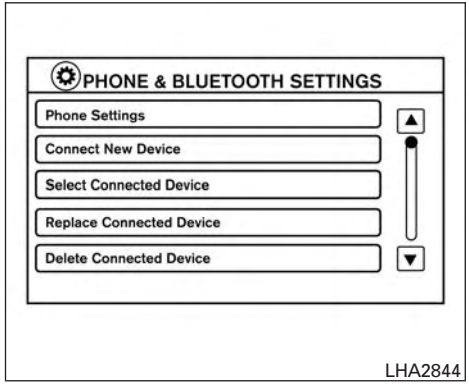


LHA2924

Connecting Bluetooth® audio

To connect your Bluetooth® audio device to the vehicle, follow the procedure below:

1. Press the [APPS] button.
2. Touch the “Settings” key.
3. Touch the “Phone & Bluetooth” key.



LHA2844

4. Touch the “Connect New Device” key.
5. The system acknowledges the command and asks you to initiate connecting from the phone handset.

NOTE:

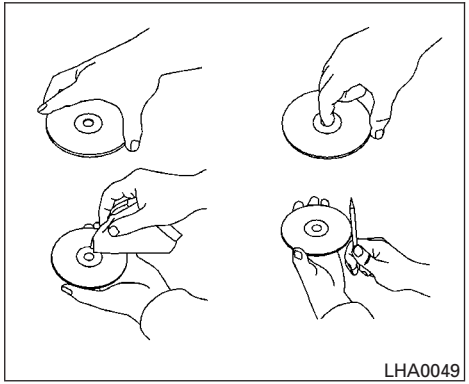
The connecting procedure of the cellular phone varies according to each cellular phone model. For additional information, refer to the cellular phone Owner’s Manual. You can also visit www.nissanusa.com/bluetooth or www.nissan.ca/bluetooth for instructions on connecting NISSAN recommended cellular phones.

Audio main operation

To switch to the Bluetooth® audio mode, press the AUX button repeatedly until the Bluetooth® audio mode is displayed on the screen.

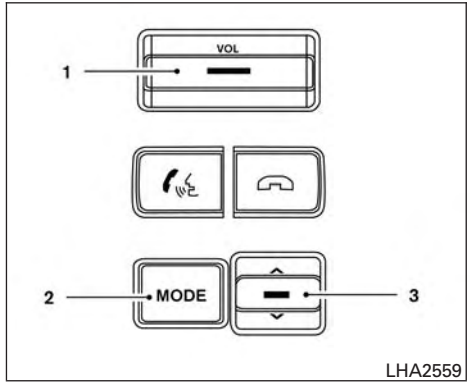
The controls for the Bluetooth® audio are displayed on the screen.

Information Provided by:
DEALER E-PROCESS


LHA0049

CD CARE AND CLEANING

- Handle a CD by its edges. Do not bend the disc. Never touch the surface of the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.
- Do not use a conventional record cleaner or alcohol intended for industrial use.
- A new disc may be rough on the inner and outer edges. Remove the rough edges by rubbing the inner and outer edges with the side of a pen or pencil as illustrated.



LHA2559

STEERING WHEEL SWITCH FOR AUDIO CONTROL (if so equipped)

The audio system can be operated using the controls on the steering wheel.

1. Volume control switch
2. MODE select switch
3. Tuning switch

Information Provided by:

MODE select switch

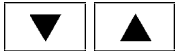
Push the mode select switch to change the mode in the following sequence:

AM → FM1 → FM2 → XM1 (satellite radio, if so equipped) → XM2 (satellite radio, if so equipped) → XM3 (satellite radio, if so equipped) → CD* → USB/iPod®* (if so equipped) → Bluetooth® Audio* → AUX* → AM.

* These modes are only available when compatible media storage is inserted into the device or connected to the system.

Volume control switch

Push the volume control switch to increase or decrease the volume.



Menu control switch/ENTER button

While the display is showing a map or audio screen, tilt the Menu Control switch upward or downward to select a station, track, CD or folder. For most audio sources, tilting the switch up/down for more than 1.5 seconds provides a different function than a tilting up/down for less than 1.5 seconds.

AM and FM

- Tilt up/down for less than 1.5 seconds to increase or decrease the preset station.
- Tilt up/down for more than 1.5 seconds to seek up or down to the next station.
- Press the ENTER button to show the list of preset stations.

SXM (if so equipped)

- Tilt up/down for less than 1.5 seconds to increase or decrease the preset station.
- Tilt up/down for more than 1.5 seconds to go to the next or previous channel.
- Press the ENTER button to show the SXM Menu.

iPod®

- Tilt up/down for less than 1.5 seconds to increase or decrease the track number.
- Press the ENTER button to show the iPod Menu.

CD

- Tilt up/down for less than 1.5 seconds to increase or decrease the track number.
- Tilt up/down for more than 1.5 seconds to increase or decrease the folder number (if playing compressed audio files).
- Press the ENTER button to show the CD Menu.

USB

- Tilt up/down for less than 1.5 seconds to increase or decrease the track number.
- Tilt up/down for more than 1.5 seconds to increase or decrease the folder number.
- Press the ENTER button to show the USB Menu.

Bluetooth® Audio

- Tilt up/down for less than 1.5 seconds to skip ahead or back to the next song.
- Tilt up/down for more than 1.5 seconds to reverse or fast forward the current song.

AUX

- Press the ENTER button to show the AUX Menu.

Information Provided by:
DEALER E-PROCESS

NISSANCONNECT℠ MOBILE APPS (if so equipped)

ANTENNA

The antenna cannot be shortened, but can be removed. When you need to remove the antenna, turn the antenna rod counterclockwise.

To install the antenna rod, turn the antenna rod clockwise and hand tighten.

⚠ CAUTION

- **Always properly tighten the antenna rod during installation or the antenna rod may break during vehicle operation.**
- **Be sure that the antenna is removed before the vehicle enters an automatic car wash.**
- **Be sure to fold down the antenna before the vehicle enters a garage with a low ceiling.**

This vehicle is equipped with Smartphone Integration technology. This allows many compatible Smartphone applications to be displayed and easily controlled through the vehicle's touch-screen.

NOTE:

A compatible smartphone and registration is required to use mobile applications or to access connected features of certain vehicle applications.

REGISTERING WITH NISSANCONNECT℠ MOBILE APPS

To use the Smartphone Integration feature, it is necessary for the user to register. In order to register, visit the NissanConnect℠ website, www.nissanusa.com/connect/ or https://canada.nissanconnect.com (For Canada) and sign up or create an account through the prompts on the NissanConnect℠ Mobile App. Once registered, download the NissanConnect℠ App from your compatible phone's application download source and then log into the application. If you already have an account created through the App, please log in.

CONNECT PHONE

To use this feature, a compatible smartphone must be connected via Bluetooth® or USB to the vehicle. For additional information on connecting your phone, refer to Bluetooth® Hands-Free Phone System without Navigation System" or "Bluetooth® Hands-Free Phone System with Navigation System" in this section.

NOTE:

For vehicles with navigation, Apple iPhones REQUIRE the phone to be plugged in via USB for NissanConnect℠ Apps to function.
For vehicles without Navigation, Apple iPhones must be paired via Bluetooth for NissanConnect℠ Apps to function.

NOTE:

For Android phones, NissanConnect℠ Apps REQUIRES the phone to be paired via Bluetooth.

Information Provided by:

APPLICATION DOWNLOAD

Once connected, the NissanConnect℠ App will search your phone to determine which compatible applications are currently installed. The user will then choose which apps they want to bring into their vehicle from the list of apps within the “Manage My Apps” section of the NissanConnect℠ App on their smartphone. The vehicle will then download the in-vehicle interface for each of these compatible applications. Once downloaded, the user can access their selected smartphone applications through the vehicle touchscreen. For additional information on application availability visit www.nissanusa.com/connect/ or www.canada.nissanconnect.com

When installing a CB, ham radio or car phone in your vehicle, be sure to observe the following precautions; otherwise, the new equipment may adversely affect the engine control system and other electronic parts.

⚠ WARNING

- **A cellular phone should not be used for any purpose while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular phones while driving.**
- **If you must make a call while your vehicle is in motion, the hands free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

- **Keep the antenna as far away as possible from the electronic control modules.**
- **Keep the antenna wire more than 8 in (20 cm) away from the electronic control system harnesses. Do not route the antenna wire next to any harness.**
- **Adjust the antenna standing-wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the CB radio chassis to the body.**
- **For details, consult a NISSAN dealer.**
- **Do not ground electrical accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely. For additional information, refer to “Variable voltage control system” in the “Maintenance and do-it-yourself” section of this manual.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

Information Provided by: DEALER E-PROCESS

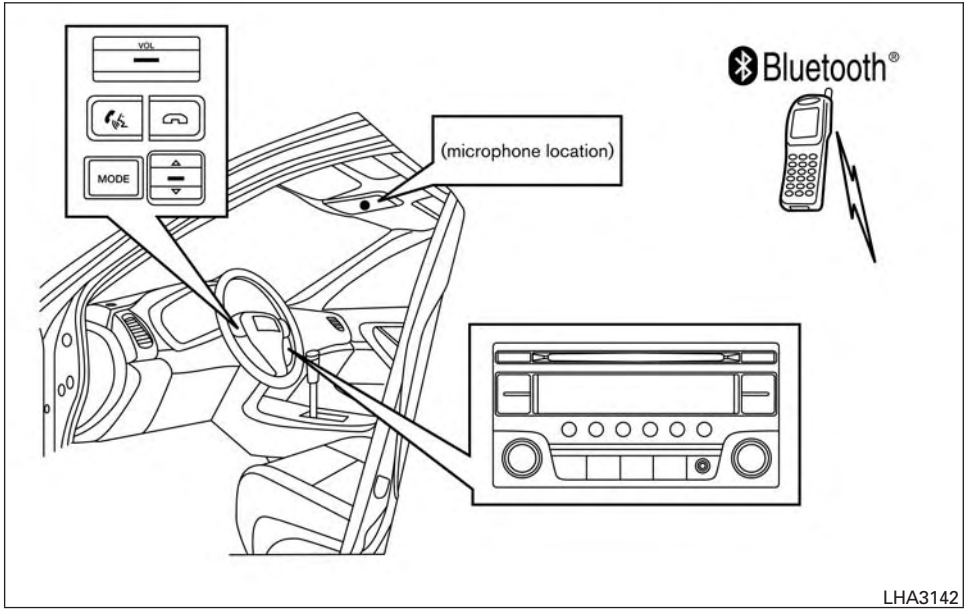
BLUETOOTH® HANDS-FREE PHONE SYSTEM WITHOUT NAVIGATION SYSTEM (Type A) (if so equipped)

⚠ WARNING

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

To avoid discharging the vehicle battery, use a phone after starting the engine.



LHA3142

Your NISSAN is equipped with the Bluetooth® Hands-Free Phone System. If you have a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a hands-free telephone call with your cellular phone in the vehicle.

Once your cellular phone is connected to the in-vehicle phone module, no other phone connecting procedure is required. Your phone is automatically connected with the in-vehicle

Information Provided by:
DEALER E-PROCESS

phone module when the ignition switch is placed in the ON position with the previously connected cellular phone turned on and carried in the vehicle.

NOTE:

Some devices require the user to accept connections to other Bluetooth® devices. If your phone does not connect automatically to the system, consult the phone's Owner's Manual for details on device operation.

You can connect up to five different Bluetooth® cellular phones to the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Set up the wireless connection between a compatible cellular phone and the in-vehicle phone module before using the hands-free phone system.
- Some Bluetooth® enabled cellular phones may not be recognized or work properly. Please visit www.nissanusa.com/bluetooth for a recommended phone list and connecting instructions.
- You will not be able to use a hands-free phone under the following conditions:
  - Your vehicle is outside of the cellular service area.
  - Your vehicle is in an area where it is difficult to receive a cellular signal; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area.
  - Your cellular phone is locked to prevent it from being dialed.
- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.
- If the hands-free phone system seems to be malfunctioning, refer to "Troubleshooting guide" in this section. You can also visit www.nissanusa.com/bluetooth for troubleshooting help.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Refer to the cellular phone Owner's Manual regarding the telephone charges, cellular phone antenna and body, etc.

REGULATORY INFORMATION

FCC Regulatory information

– CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

– Operation is subject to the following two conditions:

1. This device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Information Provided by: DEALER E-PROCESS

IC Regulatory information

– Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
– This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

BLUETOOTH® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon.

USING THE SYSTEM

The NISSAN Voice Recognition system allows hands-free operation of the Bluetooth® Hands-Free Phone System.

If the vehicle is in motion, some commands may not be available so full attention may be given to vehicle operation.

Initialization

When the ignition switch is placed in the ON position, NISSAN Voice Recognition is initialized, which takes a few seconds. If the button is pressed before the initialization completes, the system will announce “Hands-free phone system not ready” and will not react to voice commands.

Operating tips

To get the best performance out of the NISSAN Voice Recognition system, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing voice commands correctly.
- Wait until the tone sounds before speaking a command. Otherwise, the command will not be received properly.
- Start speaking a command within 5 seconds after the tone sounds.
- Speak in a natural voice without pausing between words.

Giving voice commands

To operate NISSAN Voice Recognition, press and release the button located on the steering wheel. After the tone sounds, speak a command.

The command given is picked up by the microphone, and voice feedback is given when the command is accepted.

- If you need to hear the available commands for the current menu again, say “Help” and the system will repeat them.
- If a command is not recognized, the system announces, “Command not recognized. Please try again.” Make sure the command is said exactly as prompted by the system and repeat the command in a clear voice.
- If you want to go back to the previous command, you can say “Go back” or “Correction” any time the system is waiting for a response.
- You can cancel a command when the system is waiting for a response by saying, “Cancel” or “Quit.” The system announces “Cancel” and ends the Voice Recognition session. You can also press and hold the button on the steering wheel for 5 seconds at any time to end the VR session. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.

Information Provided by:

- If you want to adjust the volume of the voice feedback, press the volume control switches (+ or -) on the steering wheel while being provided with feedback. You can also use the radio volume control knob.
- In most cases you can interrupt the voice feedback to speak the next command by pressing the button on the steering wheel.
- To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial.”

How to say numbers

NISSAN Voice Recognition requires a certain way to speak numbers in voice commands. Refer to the following rules and examples.

- Either “zero” or “oh” can be used for “0”.

  Example: 1-800-662-6200

  – “One eight oh oh six six two six two oh oh”, or

  – “One eight zero zero six six two six two oh oh”

- Words can be used for the first 4 digits places only.

  Example: 1-800-662-6200

  – “One eight hundred six six two six two oh oh”,

  – NOT “One eight hundred six six two sixty two hundred,” and

  – NOT “One eight oh oh six six two sixty two hundred”

- Numbers can be spoken in small groups. The system will prompt you to continue entering digits, if desired.

  Example: 1-800-662-6200

  – “One eight zero zero”

  The system repeats the numbers and prompts you to enter more.

  – “Six six two”

  The system repeats the numbers and prompts you to enter more.

  – “Six two zero zero”

- Say “pound” for “#”. Say “star” for “*” (available when using the “Special Number” command and the “Send” command during a call).

  For additional information, refer to “List of voice commands” and “Special number” in this section.

  Example: 1-555-1212 *123

  – “One five five five one two one two star one two three”

- Say “plus” for “+” (available only when using the “Special Number” command).
- Say “pause” for a 2-second pause (available only when storing a phonebook number).

NOTE:

For best results, say phone numbers as single digits.

The voice command “Help” is available at any time. Please use the “Help” command to get information on how to use the system.

Voice Prompt Interrupt

In most cases you can interrupt the voice feedback to speak the next command by pressing the button on the steering wheel. After interrupting the system, wait for a beep before speaking your command.

One Shot Call

To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial”.

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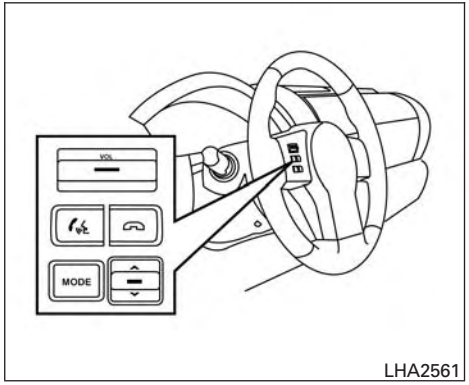

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CONTROL BUTTONS

The control buttons for the Bluetooth® Hands-Free Phone System are located on the steering wheel.

PHONE/SEND

Press the button to initiate a VR session or answer an incoming call.

You can also use the button to interrupt the system feedback and give a command at once. For additional information, refer to "List of voice commands" and "During a call" in this section.

PHONE/END

While the Voice Recognition system is active, press and hold the button for 5 seconds to quit the Voice Recognition system at any time.

ENTER button / tuning switch

While using the Voice Recognition system, tilt the tuning switch up or down to manually control the phone system. Press the ENTER button to select an option on the display screen.

GETTING STARTED

The following procedures will help you get started using the Bluetooth® Hands-Free Phone System with NISSAN Voice Recognition. For additional information, refer to "List of voice commands" in this section.

Choosing a language

You can interact with the Bluetooth® Hands-Free Phone System using English, Spanish or French.

To change the language, perform the following.

1. Press and hold the button for more than 5 seconds.
2. The system announces: "Press the PHONE/SEND ( ) button for the hands-free phone system to enter the voice adaptation mode or press the PHONE/END ( ) button to select a different language."
3. Press the button.

   For information on voice adaptation, refer to "Voice Adaptation (VA) mode" in this section.
4. The system announces the current language and gives you the option to change the lan-

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guage to Spanish (in Spanish) or French (in French). To select the current language, press the PHONE/SEND ( ) button. To select a different language, tilt the tuning switch (or) up or down.

NOTE:

You must press the button within 5 seconds to change the language.

5. If you decide not to change the language, do not press either button. After 5 seconds, the VR session will end, and the language will not be changed.

Connecting procedure

NOTE:

The connecting procedure must be performed when the vehicle is stationary. If the vehicle starts moving during the procedure, the procedure will be cancelled.

Main Menu
"Connect phone" Ⓐ
"Add phone" Ⓑ
Initiate from handset Ⓒ
Name phone Ⓓ

1. Press the button on the steering wheel. The system announces the available commands.
2. Say: "Connect phone" Ⓐ. The system acknowledges the command and announces the next set of available commands.
3. Say: "Add phone" Ⓑ. The system acknowledges the command and asks you to initiate connecting from the phone handset Ⓒ.

   The connecting procedure of the cellular phone varies according to each cellular phone model. For additional information, refer to the cellular phone Owner's Manual. You can also visit www.nissanusa.com/bluetooth for instructions on connecting NISSAN recommended cellular phones.

   When prompted for a PIN, enter "1234" from the handset. The PIN "1234" has been assigned by NISSAN and cannot be changed.
4. The system asks you to say a name for the phone Ⓓ.

   If the name is too long or too short, the system tells you, then prompts you for a name again.

   Also, if more than one phone is connected and the name sounds too much like a name already used, the system tells you, then prompts you for a name again.

Making a call by entering a phone number

Main Menu
"Call" Ⓐ
"Phone Number" Ⓑ
Speak the digits Ⓒ
"Dial" Ⓓ

1. Press the button on the steering wheel. A tone will sound.
2. Say: "Call" Ⓐ. The system acknowledges the command and announces the next set of available commands.
3. Say "Phone Number" Ⓑ. The system acknowledges the command and announces the next set of available commands.

   Say: "Special Number" to dial more than 10 digits or any special characters.
4. Say the number you wish to call starting with the area code in single digit format Ⓒ. If the system has trouble recognizing the correct phone number, try entering the number in

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the following groups: three-digit area code, three-digit prefix and the last 4 digits. For example, 555-121-3354 can be said as “five five five” as the 1st group, then “one two one” as the 2nd group, and “three three five four” as the 3rd group. For dialing more than 10 digits or any special characters, say “Special Number”. For additional information, refer to “How to say numbers” in this section.

5. When you have finished speaking the phone number, the system repeats it back and announces the available commands.
6. Say: “Dial” Ⓓ. The system acknowledges the command and makes the call.

For additional command options, refer to “List of voice commands” in this section.

Receiving a call

When you hear the ring tone, press the button on the steering wheel.

Once the call has ended, press the button on the steering wheel.

NOTE:

If you do not wish to take the call when you hear the ring tone, press the button on the steering wheel.

For additional command options, refer to “List of voice commands” in this section.

LIST OF VOICE COMMANDS

- Main Menu
  - “Call”
  - “Phonebook”
  - “Recent Calls”
  - “Connect Phone”
  - “Help”

When you press and release the button on the steering wheel, you can choose from the commands on the Main Menu. The following pages describe these commands and the commands in each sub-menu.

Remember to wait for the tone before speaking.

After the main menu, you can say “Help” to hear the list of commands currently available any time the system is waiting for a response.

If you want to end an action without completing it, you can say “Cancel” or “Quit” at any time the system is waiting for a response. The system will end the VR session. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.

If you want to go back to the previous command, you can say “Go back” or “Correction” any time the system is waiting for a response.

“Call”

- Main Menu
  - “Call”
    - (Speak name) Ⓐ
    - “Phone Number”
      - (Speak Digits) Ⓑ
      - “Special Number” Ⓒ
    - “Redial” Ⓓ
    - “Call Back” Ⓔ

(Speak name) Ⓐ

If you have stored entries in the phonebook, you can dial a number associated with a name.

For additional information, refer to “Phonebook” in this section.

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When prompted by the system, say the name of the phone book entry you wish to call. The system acknowledges the name.

If there are multiple numbers associated with the name, the system asks you to choose the correct number.

Once you have confirmed the name and location, the system begins the call.

(Speak Digits) Ⓑ

When prompted by the system, say the number you wish to call. For additional information, refer to "How to say numbers" and "Making a call by entering a phone number" in this section.

"Special Number" Ⓒ

For dialing more than 10 digits or any special characters, say "Special Number". When the system acknowledges the command, the system will prompt you to speak the number.

"Redial" Ⓓ

Use the Redial command to call the last number that was dialed.

The system acknowledges the command, repeats the number and begins dialing.

If a redial number does not exist, the system announces, "There is no number to redial" and ends the VR session.

"Call Back" Ⓔ

Use the Call Back command to dial the number of the last incoming call within the vehicle.

The system acknowledges the command, repeats the number and begins dialing.

If a call back number does not exist, the system announces, "There is no number to call back" and ends the VR session.

During a call

During a call there are several command options available. Press the button on the steering wheel to mute the receiving voice and enter commands.

- "Help" — The system announces the available commands.
- "Go back/Correction" — The system announces "Go back," ends the VR session and returns to the call.
- "Cancel/Quit" — The system announces "Cancel," ends the VR session and returns to the call.
- "Send/Enter/Call/Dial" — Use the Send command to enter numbers, "*" or "#" during a call. For example, if you were directed to dial an extension by an automated system:

  Say: "Send one two three four."

  The system acknowledges the command and sends the tones associated with the numbers. The system then ends the VR session and returns to the call. Say "star" for "*", Say "pound" for "#".
- "Transfer call" — Use the Transfer Call command to transfer the call from the Bluetooth® Hands-Free Phone System to the cellular phone when privacy is desired.

  The system announces, "Transfer call. Call transferred to privacy mode." The system then ends the VR session.

  To reconnect the call from the cellular phone to the Bluetooth® Hands-Free System, press the button.
- "Mute" — Use the Mute command to mute your voice so the other party cannot hear it. Use the mute command again to unmute your voice.

NOTE:

If a call is ended or the cellular phone network connection is lost while the Mute feature is on, the Mute feature will be reset to "off" for the next call so the other party can hear your voice.

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“Phonebook” (phones without automatic phonebook download function)

NOTE:

The “Transfer Entry” command is not available when the vehicle is moving.

Main Menu
- “Phonebook”
  - “Transfer Entry” Ⓐ
  - “Delete Entry” Ⓑ
  - “List Names” Ⓒ

For phones that do not support automatic download of the phonebook (PBAP Bluetooth® profile), the “Phonebook” command is used to manually add entries to the vehicle phonebook.

The phonebook stores up to 40 names for each phone connected to the system.

NOTE:

Each phone has its own separate phonebook. You cannot access Phone A’s phonebook if you are currently connected with Phone B.

“Transfer Entry” Ⓐ

Use the Transfer Entry command to store a new name in the system.

When prompted by the system, say the name you would like to give the new entry.

For example, say: “Mary.”

If the name is too long or too short, the system tells you, then prompts you for a name again.

Also, if the name sounds too much like a name already stored, the system tells you, then prompts you for a name again.

The system will ask you to transfer a phone number stored in the cellular phone’s memory.

Enter a phone number by voice command:

For example, say: “five five five one two one two.” For additional information, refer to “How to say numbers” in this section.

To transfer a phone number stored in the cellular phone’s memory:

Say “Transfer entry.” The system acknowledges the command and asks you to initiate the transfer from the phone handset. The new contact phone number will be transferred from the cellular phone via the Bluetooth® communication link.

The transfer procedure varies according to each cellular phone. For additional information, refer to the cellular phone Owner’s Manual. You can also visit www.nissanusa.com/bluetooth for instructions on transferring phone numbers from NISSAN recommended cellular phones.

The system repeats the number and prompts you for the next command. When you have finished entering numbers or transferring an entry, choose “Store.”

The system confirms the name, location and number.

“Delete Entry” Ⓑ

Use the Delete Entry command to erase one entry from the phonebook. After the system recognizes the command, speak the name to delete or say “List Names” to choose an entry.

“List Names” Ⓒ

Use the List Names command to hear all the names in the phonebook.

The system recites the phonebook entries but does not include the actual phone numbers. When the playback of the list is complete, the system goes back to the main menu.

You can stop the playback of the list at any time by pressing the button on the steering wheel. The system ends the VR session.

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“Phonebook” (phones with automatic phonebook download function)

NOTE:

The “Transfer Entry” command is not available when the vehicle is moving.

Main Menu
- “Phonebook”
  - Say a Name
  - “List Names” Ⓐ
  - “Record Name” Ⓑ

For phones that support automatic download of the phonebook (PBAP Bluetooth® profile), the “Phonebook” command is used to manage entries in the vehicle phonebook. You can say the name of an entry at this menu to initiate dialing of that entry.

The phonebook stores up to 1,000 names for each phone connected to the system.

When a phone is connected to the system, the phonebook is automatically downloaded to the vehicle. This feature allows you to access your phonebook from the Bluetooth® system and call contacts by name. You can record a custom voice tag for contact names that the system has difficulty recognizing. For additional information, refer to “Record name” in this section.

NOTE:

Each phone has its own separate phonebook. You cannot access Phone A’s phonebook if you are currently connected with Phone B.

“List Names” Ⓐ

Use the List Names command to hear all the names and locations in the phone book.

The system recites the phone book entries but does not include the actual phone numbers. When the playback of the list is complete, the system goes back to the main menu.

You can stop the playback of the list at any time by pressing the button on the steering wheel. The system ends the VR session. For additional information about recording custom voice tags for list entries that the system has difficulty pronouncing, refer to “Record name”.

“Record Name” Ⓑ

The system allows you to record custom voice tags for contact names in the phonebook that the vehicle has difficulty recognizing. This feature can also be used to record voice tags to directly dial an entry with multiple numbers. Up to 40 voice tags can be recorded to the system.

“Recent Calls”

Main Menu
- “Recent Calls”
  - “Outgoing” Ⓐ
  - “Incoming” Ⓑ
  - “Missed” Ⓒ
  - “Call Back” Ⓓ
  - “Redial” Ⓔ

Use the Recent Calls command to access outgoing, incoming or missed calls or dial numbers for the last incoming or outgoing calls.

“Outgoing” Ⓐ

Use the Outgoing command to list the outgoing calls made from the vehicle.

“Incoming” Ⓑ

Use the Incoming command to list the incoming calls made to the vehicle.

“Missed” Ⓒ

Use the Missed command to list the calls made to the vehicle that were not answered.

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“Call Back” Ⓓ

Use the Call Back command to dial the number of the last incoming call to the vehicle.

“Redial” Ⓔ

Use the Redial command to dial the number of the last outgoing call from the vehicle.

“Connect Phone”

NOTE:

The Add Phone command is not available when the vehicle is moving.

Main Menu
- “Connect Phone”
  - “Add Phone” Ⓐ
  - “Select Phone” Ⓑ
  - “Delete Phone” Ⓒ
  - “Replace Phone” Ⓓ
  - “Bluetooth OFF” Ⓔ

Use the Connect Phone commands to manage the phones connecting to the vehicle or to enable the Bluetooth® function on the vehicle.

“Add Phone” Ⓐ

Use the Add Phone command to add a phone to the vehicle. For additional information, refer to “Connecting procedure” in this section.

“Select Phone” Ⓑ

Use the Select Phone command to select from a list of phones connected to the vehicle. The system will list the names assigned to each phone and then prompt you for the phone you wish to select. Only one phone can be active at a time.

“Delete Phone” Ⓒ

Use the Delete Phone command to delete a phone that is connected to the vehicle. The system will list the names assigned to each phone and then prompt you for the phone you wish to delete. Deleting a phone from the vehicle will also delete the phonebook for that phone.

“Replace Phone” Ⓓ

Use the Replace Phone command to replace an existing phone pairing with a new phone. The system will keep all voice tags assigned to your phonebook.

“Bluetooth OFF” Ⓔ

Use the Bluetooth OFF command to prevent a wireless connection to your phone.

VOICE ADAPTATION (VA) MODE

Voice Adaptation allows up to two out-of-dialect users to train the system to improve recognition accuracy. By repeating a number of commands, the users can create a voice model of their own voice that is stored in the system. The system is capable of storing a different voice adaptation model for each connected phone.

Training procedure

The procedure for training a voice is as follows.

1. Position the vehicle in a reasonably quiet outdoor location.
2. Sit in the driver’s seat with the engine running, the parking brake on, and the transmission in P (Park).
3. Press and hold the button for more than 5 seconds.
4. The system announces: “Press the PHONE/SEND ( ) button for the hands-free phone system to enter the voice adaptation mode or press the PHONE/END ( ) button to select a different language.”

Information Provided by:

5. Press the button.

   For additional information on selecting a different language, refer to “Choosing a language” in this section.

6. Voice memory A or memory B is selected automatically. If both memory locations are already in use, the system will prompt you to overwrite one. Follow the instructions provided by the system.
7. When preparation is complete and you are ready to begin, press the button.
8. The VA mode will be explained. Follow the instructions provided by the system.
9. When training is finished, the system will tell you an adequate number of phrases have been recorded.
10. The system will announce that voice adaptation has been completed and the system is ready.

The VA mode will stop if:

- The button is pressed for more than 5 seconds in VA mode.
- The vehicle begins moving during VA mode.
- The ignition switch is placed in the OFF or LOCK position.

Training phrases

During the VA mode, the system instructs the trainer to say the following phrases. The system will prompt you for each phrase.

- phonebook transfer entry
- dial three oh four two nine
- delete call back number
- incoming
- transfer entry
- eight pause nine three two pause seven
- delete all entries
- call seven two four zero nine
- phonebook delete entry
- next entry
- dial star two one seven oh
- yes
- no
- select
- missed
- dial eight five six nine two
- Bluetooth on
- outgoing
- call three one nine oh two
- nine seven pause pause three oh eight
- cancel
- call back number
- call star two zero nine five
- delete phone
- dial eight three zero five one
- record name
- four three pause two nine pause zero
- delete redial number
- phonebook list names
- call eight oh five four one
- correction
- connect phone
- dial seven four oh one eight
- previous entry
- delete
- dial nine seven two six six
- call seven six three oh one

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- go back
- call five six two eight zero
- dial six six four three seven

MANUAL CONTROL

While using the Voice Recognition system, it is possible to select menu options by using the steering wheel controls instead of speaking voice commands. The manual control mode does not allow dialing a phone number by digits. The user may select an entry from the Phonebook or Recent Calls lists. To re-activate Voice Recognition, exit the manual control mode by pressing and holding the PHONE/END ( ) button. At that time, pressing the PHONE/SEND ( ) button will start the Hands- Free Phone System.

Operating tips

- To enter manual control mode, start the Voice Recognition system and tilt the tuning ( ) switch up or down. The system will speak ″Showing Manual Options″ when manual controls are initially activated.
- To browse the menu options, tilt the tuning ( ) switch up or down. The system will always speak the current menu option. Depending on the audio display, it will also show the current menu option.
- To select the current menu option, press the PHONE/SEND ( ) button.
- To go back to the previous menu, press the PHONE/END ( ) button. If the current menu is the Main Menu, pressing the PHONE/END ( ) button will exit the Phone system.
- To exit the manual control mode, press and hold the PHONE/END ( ) button for 5 seconds.

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TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid. For additional information, refer to “List of voice commands” in this section.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. For additional information, refer to “Voice Adaptation (VA) mode” in this section.
The system consistently selects the wrong entry from the phone book.	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the “List Names” command. For additional information, refer to “Phonebook” in this section.
	2. Replace one of the names being confused with a new name.

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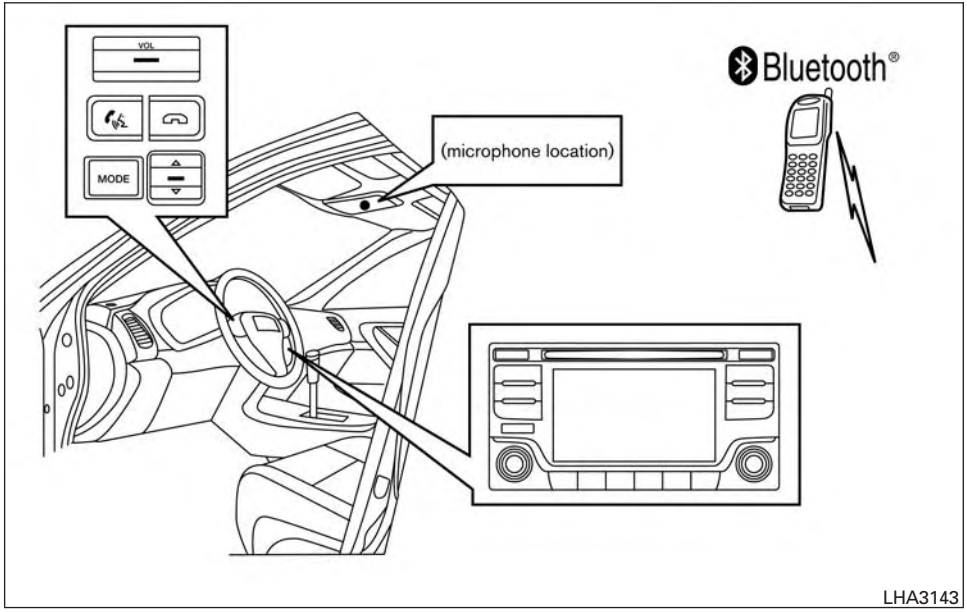
BLUETOOTH® HANDS-FREE PHONE SYSTEM WITHOUT NAVIGATION SYSTEM (Type B) (if so equipped)

⚠ WARNING

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

To avoid discharging the vehicle battery, use a phone after starting the engine.



Your NISSAN is equipped with the Bluetooth® Hands-Free Phone System. If you have a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a hands-free telephone call with your cellular phone in the vehicle.

Once your cellular phone is connected to the in-vehicle phone module, no other phone connecting procedure is required. Your phone is automatically connected with the in-vehicle phone module when

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the ignition switch is placed in the ON position with the previously connected cellular phone turned on and carried in the vehicle.

You can connect up to five different Bluetooth® cellular phones to the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Set up the wireless connection between a compatible cellular phone and the in-vehicle phone module before using the hands-free phone system.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.nissanusa.com/bluetooth for recommended phone list and connecting instructions.
- You will not be able to use a hands-free phone under the following conditions:
  - Your vehicle is outside of the cellular service area.
  - Your vehicle is in an area where it is difficult to receive a cellular signal; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area.
  - Your cellular phone is locked to prevent it from being dialed.
- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.
- If the hands-free phone system seems to be malfunctioning, refer to "Troubleshooting guide" in this section. You can also visit www.nissanusa.com/bluetooth for troubleshooting help.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Refer to the cellular phone Owner's Manual regarding the telephone charges, cellular phone antenna and body, etc.

REGULATORY INFORMATION

FCC Regulatory information

- CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.
- Operation is subject to the following two conditions:

1. This device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

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IC Regulatory information

– Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
– This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Bluetooth®

BLUETOOTH® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon.

USING THE SYSTEM

The NISSAN Voice Recognition system allows hands-free operation of the Bluetooth® Hands-Free Phone System.

If the vehicle is in motion, some commands may not be available so full attention may be given to vehicle operation.

Initialization

When the ignition switch is placed in the ON position, NISSAN Voice Recognition is initialized, which takes a few seconds. If the button is pressed before the initialization completes, the system will announce “Hands-free phone system not ready” and will not react to voice commands.

Operating tips

To get the best performance out of the NISSAN Voice Recognition (VR) system, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing voice commands correctly.
- Wait until the tone sounds before speaking a command. Otherwise, the command will not be received properly.
- Start speaking a command within 5 seconds after the tone sounds.
- Speak in a natural voice without pausing between words.

Giving voice commands

To operate NISSAN Voice Recognition, press and release the button located on the steering wheel. After the tone sounds, speak a command.

The command given is picked up by the microphone, and voice feedback is given when the command is accepted.

- If you need to hear the available commands for the current menu again, say “Help” and the system will repeat them.
- If a command is not recognized, the system announces, “Command not recognized. Please try again.” Make sure the command is said exactly as prompted by the system and repeat the command in a clear voice.
- If you want to go back to the previous command, you can say “Go back” or “Correction” any time the system is waiting for a response.
- You can cancel a command when the system is waiting for a response by saying, “Cancel” or “Quit.” The system announces “Cancel” and ends the Voice Recognition session. You can also press and hold the button on the steering wheel for 5 seconds at any time to end the VR session. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.

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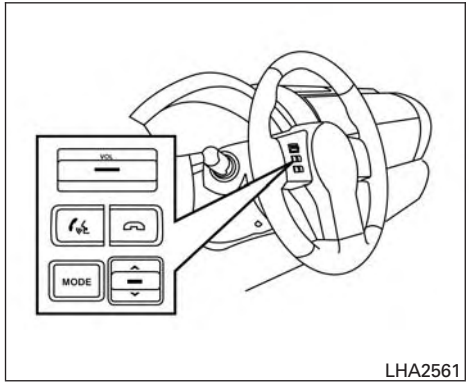
- If you want to adjust the volume of the voice feedback, press the volume control switches (+ or -) on the steering wheel while being provided with feedback. You can also use the radio volume control knob.
- In most cases you can interrupt the voice feedback to speak the next command by pressing the button on the steering wheel.
- To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial.”

Voice Prompt Interrupt

In most cases you can interrupt the voice feedback to speak the next command by pressing the button on the steering wheel. After interrupting the system, wait for a beep before speaking your command.

One Shot Call

To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial”.



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CONTROL BUTTONS

The control buttons for the Bluetooth® Hands-Free Phone System are located on the steering wheel.

PHONE/SEND

Press the button to initiate a VR session or answer an incoming call.

You can also use the button to interrupt the system feedback and give a command at once. For additional information, refer to “Voice commands” and “During a call” in this section.

PHONE/END

While the Voice Recognition system is active, press and hold the button for 5 seconds to quit the Voice Recognition system at any time.

ENTER button / tuning switch

While using the Voice Recognition system, tilt the tuning switch up or down to manually control the phone system. Press the ENTER button to select an option on the display screen.

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CONNECTING PROCEDURE

NOTE:

The connecting procedure must be performed when the vehicle is stationary. If the vehicle starts moving during the procedure, the procedure will be cancelled.

To connect a phone to the Bluetooth® Hands-Free Phone System:

1. Press the SETTING button.
2. Use the TUNE/FOLDER knob to select “Bluetooth” and then press the ENTER button.

Menu Item		Result
Bluetooth ON/OFF		Allows user to switch Bluetooth® on and off. Bluetooth® must be turned on in order to connect device.
	On	Turns Bluetooth® functionality on
	Off	Turns Bluetooth® functionality off
Add Phone		Upon pressing this button, a message with a PIN appears on the screen. operate the Bluetooth® phone to enter the PIN and complete the connection process.
Delete Phone		Delete a phone currently connected to the system.
Replace Phone		Replace the phone currently connected to the system. This option allows the user to keep any voice tags that were recorded using the previous phone if vehicle is equipped with voice recognition.
Select Phone		Choose a phone from a list of previously connected or currently connected phones.

The connecting procedure varies according to each phone. For additional information, refer to the phone’s Owner’s Manual.

Information Provided by:
DEALER E-PROCESS

VOICE COMMANDS

Voice commands can be used to operate the Bluetooth® Hands-Free Phone System. Press the button and say “Phone” to bring up the phone command menu. The available options are:

- Call
- Phonebook
- Recent Calls
- Messaging
- Show Applications
- Select Phone

“Call”

For additional information on the “Call” command, refer to “Making a call” in this section.

“Phonebook”

The following commands are available under “Phonebook”:

- (A Name)
  Say a name in the phonebook to bring up a list of options for that phonebook entry. The system will say the name it interpreted based on the voice command provided. If the name is incorrect, say “Correction” to hear another name.
  Once the correct phonebook entry is identified, say “Dial” to dial the number or “Send Text” to send a text message to that number. Say “Record Name” to record a name for the phonebook entry. Say “Delete Recording” to delete a recorded name for the phonebook entry.
- List Names
  Speak this command to have the system list the names in the phonebook one by one alphabetically. Say “Dial” to dial the number of the current name or “Send Text” to send a text message to that number. Say “Next Entry” or “Previous Entry” to move through the list alphabetically. Say “Record Name” to record a name for the current phonebook entry. Say “Delete Recording” to delete a recorded name for the current phonebook entry.

“Recent Calls”

The following commands are available under “Recent Calls”:

- Incoming
  Speak this command to list the last five incoming calls to the vehicle. If the call is from an entry in the phonebook, the name will be displayed. Otherwise, the phone number of the incoming call will be displayed.
  Say “Dial” to call the number or “Send Text” to send a text message to that number. Say “Next Entry” or “Previous Entry” to move through the list of incoming calls.
- Missed
  Speak this command to list the last five missed calls to the vehicle. If the call is from an entry in the phonebook, the name will be displayed. Otherwise, the phone number of the missed call will be displayed.
  Say “Dial” to call the number or “Send Text” to send a text message to that number. Say “Next Entry” or “Previous Entry” to move through the list of missed calls.

Information Provided by:
DEALER E-PROCESS

- Outgoing
  Speak this command to list the last five outgoing calls from the vehicle. If the call was to an entry in the phonebook, the name will be displayed. Otherwise, the phone number of the outgoing call will be displayed.
  Say “Dial” to call the number or “Send Text” to send a text message to that number. Say “Next Entry” or “Previous Entry” to move through the list of outgoing calls.
- Redial
  Speak this command to call the last number dialed.
- Call Back
  Speak this command to call the number of the last incoming call to the vehicle.

“Messaging”

Speak this command to access text messaging functions. For additional information on these commands, refer to “Text messaging” in this section.

“Show Applications”

Speak this command to display list of smartphone apps available.

NOTE:

Compatible smartphone and registration necessary to access applications. For additional information, refer to “NissanConnect℠ Mobile Apps” in this section.

“Select Phone”

Speak this command to select a phone to use from a list of those phones connected to the vehicle.

MAKING A CALL

To make a call from a phone connected to the vehicle’s Bluetooth® Hands-Free Phone System:

1. Press the button on the steering wheel.
2. The system will prompt you for a command. Say “Call”.
3. Select one of the available voice commands to continue:

- “(A Name)” — Speak the name of a phonebook entry to place a call to that entry. The system will respond with the name it interpreted from your command and will prompt you to confirm that the name is correct. Say “Yes” to initiate the call or “No” to hear another name from the phonebook.
- “Phone Number” — Speak this command to place a call by inputting numbers. For 7– to 10–digit phone number, speak the numbers. Say “Correction” at any time in the process to correct a misspoken or misinterpreted number. For phone numbers with more digits or special characters, say “Special Number”, then speak the digits. Up to 24 digits can be entered. Available special characters are “start”, “pound”, “plus”, and “pause”. When finished, say “Dial” to initiate the call. Say “Correction” at any time in the process to correct a misspoken or misinterpreted number or character.
- “Redial” – Speak this command to dial the number of the last outgoing call. The system will display “Re-dialing <name/number>”. The name of the phonebook entry will be displayed if it available, otherwise the number being re-dialed will be displayed.
- “Call Back” – Speak this command to dial the number of the last incoming call. The system will display “Calling back <name/number>”. The name of the phonebook entry will be displayed if it available, otherwise the number being called back will be displayed.

Information Provided by:

RECEIVING A CALL

When a call is received by the phone connected to the vehicle's Bluetooth® Hands-Free Phone System, the call information is displayed on either the vehicle information display or both the vehicle information display and the control panel display.

Press the button to accept the call. Press the button to reject the call.

DURING A CALL

While a call is active, press the button to access additional options. Speak one of the following commands:

- "Send" – Speak this command followed by the digits to enter digits during the phone call.
- "Mute On" or "Mute Off" – Speak the command to mute or unmute the system.
- "Transfer Call" – Speak this command to transfer the call to the handset. To transfer the call back from the handset to the Bluetooth® Hands-Free Phone System, press the button and confirm when prompted.

If supported by the phone, the Bluetooth® Hands-Free Phone System allows for call waiting functionality. If a call is received while another call is already active, a message will be displayed on the screen. Press the button to hold the active call and switch to the second call. Press the button to reject the second call.

While the second call is active, pressing the button will allow the same commands that are available during any call as well as two additional commands:

- "Switch Call" – Speak this command to hold the second call and switch back to the original call.
- "End Other Call" – Speak this command to stay with the second call and end the original call.

Press the button to accept the call. Press the button to reject the call.

ENDING A CALL

To end an active call, press the button.

TEXT MESSAGING

WARNING

- **Laws in some jurisdictions may restrict the use of "Text-to-Speech." Check local regulations before using the feature.**
- **Laws in some jurisdictions may restrict the use of some of the applications and features, such as social networking and texting. Check local regulations for any requirements.**
- **Use the text messaging feature after stopping your vehicle in a safe location. If you have to use the feature while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while using the text messaging feature, pull off the road to a safe location and stop your vehicle.**

Information Provided by: DEALER E-PROCESS

NOTE:

Many phones may require special permission to enable text messaging. Check the phone's screen during Bluetooth pairing. For some phones, you may need to enable 'Notifications' in the phone's Bluetooth menu for text messages to appear on the headunit. Please consult you phone's Owner's manual. Text message integration requires that the phone support MAP (Message Access Profile) for both receiving and sending text messages. Some phones may not support all text messaging features. Please refer to www.nissan.com/bluetooth or www.nissan.ca/bluetooth for compatibility information, as well as your device's Owner's manual.

The system allows for the sending and receiving of text messages through the vehicle interface.

Sending a text message:

1. Press the button.
2. Say "Messaging".
3. Say "Send Text".
4. The system will provide a list of available commands in order to determine the recipient of the text message. Choose from the following:
   - (A name)
   - Number
   - Incoming Calls
   - Outgoing Calls
   - Missed Calls

   If "Incoming Calls", "Outgoing Calls", or "Missed Calls" is selected, the following additional commands will be displayed:
   - Send Text
   - Next Entry
   - Previous Entry

   For additional information about these options, refer to "Voice commands" in this section.
5. Once a recipient is chosen, the system prompts for which message to send. Five predefined messages are available as well as three custom messages. To choose one of the predefined messages, speak one of the following:
   - "Driving, can't text"
   - "Call me"
   - "On my way"
   - "Running late"
   - "Okay"

   To send one of the custom messages, say "Custom Message". If more than one custom message is stored, the system will prompt for the number of the desired custom message. For additional information on setting and managing custom text messages, refer to "Bluetooth® settings" in this section.

Reading a received text message:

1. Press the button.
2. Say "Messaging".
3. Say "Read Text".

The text message, sender and delivery time are shown on the screen. Use the tuning switch on the steering wheel to scroll through all text messages if more than one are available. Press the button to exit the text message screen. Press the button to access the following options for replying to the text message:

- Call Back
  Speak this command to call the sender of the text message using the Bluetooth® Hands-Free Phone System.

Information Provided by:

- Send Text
  Speak this command to send a text message response to the sender of the text message.
- Read Text
  Speak this command to read the text message again.
- Previous Text
  Speak this command to move to the previous text message (if available).
- Next Text
  Speak this command to move to the next text message (if available).

NOTE:

Text messages are only displayed if the vehicle speed is less than 5 mph (8 km/h).

BLUETOOTH® SETTINGS

To access and adjust the settings for the Bluetooth® Hands-Free Phone System:

1. Press the SETTING button.
2. Use the TUNE/FOLDER knob to select "Bluetooth" and then press the ENTER button:

- Bluetooth
  Select "On" or "Off" to turn the vehicle's Bluetooth® system on or off.
- Add Phone or Device
  To connect a phone to the system, refer to "Connecting procedure" in this section.
- Delete Phone or Device
  Select to delete a phone from the displayed list. The system will ask to confirm before deleting the phone.
- Replace Phone
  Select to replace a phone from the displayed list. When a selection is made, the system will ask to confirm before proceeding. The recorded phonebook for the phone being deleted will be saved as long as the new phone's phonebook is the same as the old phone's phonebook.
- Select Phone
  Select to connect to a previously connected phone from the displayed list.
- Show Incoming Calls
  Select "Driver Only" to have incoming call information displayed only in the vehicle information display. Select "Both" to have incoming call information displayed in both the vehicle information display and the center display screen.
- Phonebook Download
  Select to turn on or off the automatic download of a connected phone's phonebook.
- Text Message
  Select to turn on or off the vehicle's text messaging feature.
- New Text Sound
  Select to adjust the volume of the sound that plays when a new text is received by a phone connected to the Bluetooth® Hands-Free Phone System. The setting all the way to the left indicates that the new text sound will be muted.
- Show Incoming Text
  Select "Driver Only" to have incoming text messages displayed only in the vehicle information display. Select "Both" to have incoming text messages displayed in both the vehicle information display and the center display screen. Select "None" to have no display of incoming text messages.
- Edit Custom Messages
  Select to set a custom message that will be available with the standard options when sending a text message. To set a custom message, send a text message to your own phone number while the phone is connected to the system. Three custom messages can be set. Custom messages can only be set while the vehicle is stationary.

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- Auto Reply
  Select to turn on or off the Auto Reply function. When enabled, the vehicle will automatically send a predefined text message to the sender when a text message is received while driving.
- Auto Reply Message
  Select to choose the message that is sent when the Auto Reply function is enabled. Choose from “I’m Driving” or one of the three custom messages stored in the system.
- Vehicle Signature On/Off
  Select to choose whether or not the vehicle signature is added to outgoing text messages from the vehicle. This message cannot be changed or customized.

MANUAL CONTROL

While using the Voice Recognition system, it is possible to select menu options by using the steering wheel controls instead of speaking voice commands. To activate manual control mode, press the PHONE/SEND ( ) button on the steering wheel to access the phone menu and then press either up or down on the tuning switch ( ).

The manual control mode does not allow dialing a phone number by digits. The user may select an entry from the Phonebook or Recent Calls lists. To reactivate Voice Recognition, exit the manual control mode by pressing and holding the PHONE/END ( ) button. At that time, pressing the PHONE/SEND ( ) button will start the Hands Free Phone System.

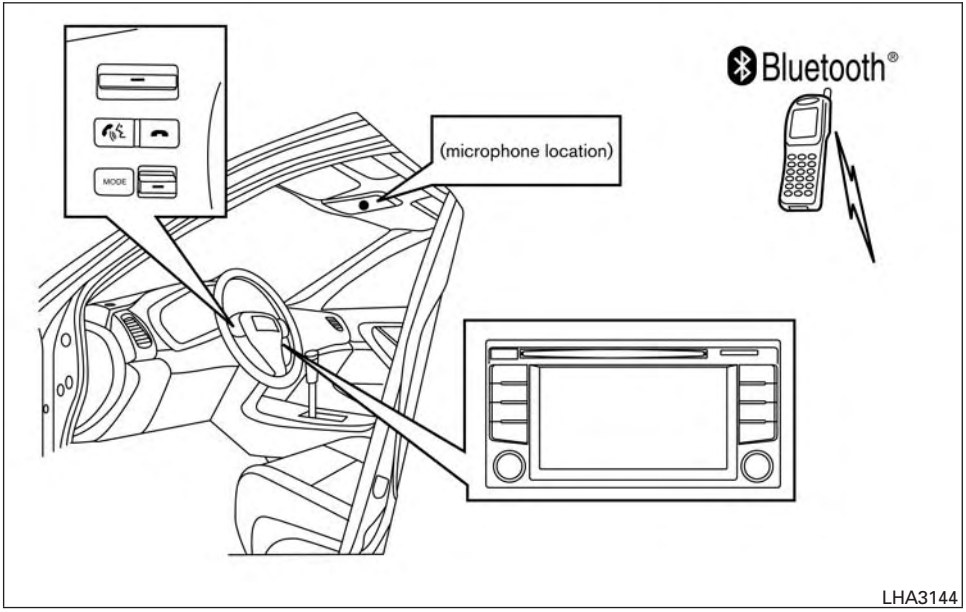
⚠ WARNING

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

To avoid discharging the vehicle battery, use a phone after starting the engine.

Information Provided by:



Your NISSAN is equipped with the Bluetooth® Hands-Free Phone System. If you have a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a hands-free telephone call with your cellular phone in the vehicle.

Once your cellular phone is connected to the in-vehicle phone module, no other phone connecting procedure is required. Your phone is automatically connected with the in-vehicle phone module when the ignition switch is placed in the ON position with the connected cellular phone turned on and carried in the vehicle.

You can register up to five different Bluetooth® cellular phones to the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

NISSAN Voice Recognition system supports the phone commands, so dialing a phone number using your voice is possible. For additional information, refer to “NISSAN Voice Recognition System” in this section.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Set up the wireless connection between a cellular phone and the in-vehicle phone module before using the hands-free phone system.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.nissanusa.com/bluetooth for a recommended phone list and connecting instructions.
- You will not be able to use a hands-free phone under the following conditions:

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– Your vehicle is outside of the cellular service area.

– Your vehicle is in an area where it is difficult to receive cellular signal; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area.

– Your cellular phone is locked to prevent it from being dialed.

- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
- Immediately after the ignition switch is placed in the ON position, it may be impossible to receive a call for a short period of time.
- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.
- If the hands-free phone system seems to be malfunctioning, refer to "Troubleshooting guide" in this section. You can also visit www.nissanusa.com/bluetooth for troubleshooting help.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Refer to the cellular phone owner's manual regarding the telephone charges, cellular phone antenna and body, etc.
- The signal strength display on the monitor will not coincide with the signal strength display of some cellular phones.

REGULATORY INFORMATION

FCC Regulatory information

– CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

– Operation is subject to the following two conditions:

1. This device may not cause interference and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

IC Regulatory information

– Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

– This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Bluetooth®

BLUETOOTH® is a trademark owned by Bluetooth SIG, Inc. and licensed to Bosch.

VOICE COMMANDS

You can use voice commands to operate various Bluetooth® Hands-Free Phone System features using the NISSAN Voice Recognition system. For additional information, refer to "NISSAN Voice Recognition System" in this section.

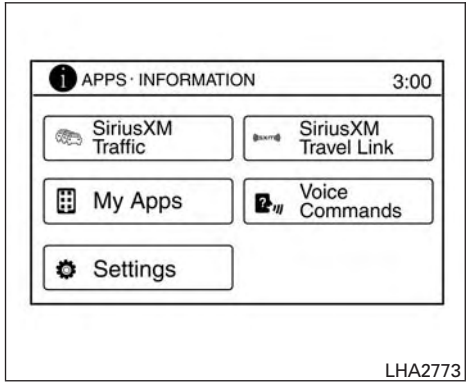
Information Provided by DEALER E-PROCESS

Voice Prompt Interrupt

While using the Voice Recognition system, the system voice can be interrupted to allow the user to speak commands. While the system is speaking, press the button on the steering wheel. The system voice will stop and a tone will be heard. After the tone, speak desired command (displayed on the touch-screen).

One Shot Call

To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial”.



CONNECTING PROCEDURE

NOTE:

The connecting procedure must be performed when the vehicle is stationary. If the vehicle starts moving during the procedure, the procedure will be cancelled.

1. Press the [APPS] button on the control panel.
2. Touch the “Settings” key.
3. Touch the “Phone & Bluetooth” key.
4. Touch the “Connect New Device” key.
5. Initiate the connecting process from the handset. The system will display the message: “Is PIN XXXXXX displayed on your Bluetooth device?”. If the PIN is displayed on your Bluetooth® device, select “Yes” to complete the pairing process.

For additional information, refer to the Bluetooth® device’s Owner’s Manual.

VEHICLE PHONEBOOK

To access the vehicle phonebook:

1. Press the button on the control panel.
2. Touch the “Phonebook” key.
3. Choose the desired entry from the displayed list.
4. The number of the entry will be displayed on the screen. Touch the number to initiate dialing.

NOTE:

To scroll quickly through the list, touch the “A-Z” key in the upper right corner of the screen. Turn the TUNE/SCROLL knob to choose a letter or number and then press ENTER. The list will move to the first entry that begins with that number or letter.

Information Provided by: DOALLER E-PROCESS

MAKING A CALL

To make a call, follow the procedure below:

1. Press the button on the control panel. The “Phone” screen will appear on the display.
2. Select one of the following options to make a call:

- “Phonebook”: Select the name from an entry stored in the vehicle phonebook.
- “Call Lists”: Select the name from the incoming, outgoing or missed.
- “Redial”: Dial the last outgoing call from the vehicle.
- “ ”: Input the phone number manually using a keypad displayed on the screen. For additional information, refer to “How to use the touch-screen” in this section.

RECEIVING A CALL

When a call is placed to the connected phone, the display will change to phone mode.

To accept the incoming call, either:

- Press the button on the steering wheel, or
- Touch the icon on the screen.

To reject the incoming call, either:

- Press the button on the steering wheel, or
- Touch the red phone icon on the screen.

DURING A CALL

While a call is active, the following options are available on the screen:

- “Handset”
  Select this option to switch control of the phone call over to the handset.
- “Mute Mic.”
  Select this option to mute the microphone. Select again to unmute the microphone.
- Red phone ( ) icon
  Select to end the phone call.

ENDING A CALL

To end a phone call, select the red phone ( ) icon on the screen or press the button on the steering wheel.

TEXT MESSAGING

WARNING

- **Laws in some jurisdictions may restrict the use of “Text-to-Speech”. Check local regulations before using this feature.**
- **Laws in some jurisdictions may restrict the use of some of the applications and features, such as social networking and texting. Check local regulations for any requirements.**
- **Use the text messaging feature after stopping your vehicle in a safe location. If you have to use the feature while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while using the text messaging feature, pull off the road to a safe location and stop your vehicle.**

Information Provided by:

NOTE:

Many phones may require special permission to enable text messaging. Check the phone's screen during Bluetooth pairing. For some phones, you may need to enable 'Notifications' in the phone's Bluetooth menu for text messages to appear on the headunit. Please consult your phone's Owner's manual. Text message integration requires that the phone support MAP (Message Access Profile) for both receiving and sending text messages. Some phones may not support all text messaging features. Please refer to www.nissanusa.com/bluetooth or www.nissan.ca/bluetooth for compatibility information, as well as your device's Owner's manual.

The system allows for the sending and receiving of text messages through the vehicle interface.

Sending a text message:

1. Press the button on the steering wheel.
2. Say "Phone" after the tone.
3. Say "Send Text" after the tone.
4. The system will provide a list of available commands in order to determine the recipient of the text message. Choose from the following:
   - To (a name)
   - Enter Number
   - Missed Calls
   - Incoming Calls
   - Outgoing Calls

   For additional information about these options, refer to "Voice commands" in this section.
5. Once a recipient is chosen, the system prompts for which message to send. Nine predefined messages are available as well as three custom messages. To choose one of the predefined messages, speak one of the following after the tone:
   - "Driving, can't text"
   - "Call me"
   - "On my way"
   - "Running late"
   - "Okay"
   - "Yes"
   - "No"
   - "Where are you?"
   - "When?"

   To send one of the custom messages, say "Custom Messages". If more than one custom message is stored, the system will prompt for the number of the desired custom message. For additional information on setting and managing custom text messages, refer to "Bluetooth® settings" in this section.

Reading a received text message:

1. Press the button on the steering wheel.
2. Say "Phone" after the tone.
3. Say "Read Text" after the tone.

The text message, sender and delivery time are shown on the screen. Use the tuning switch to scroll through all text messages if more than one are available. Press the button to exit the text message screen. Press the button to access the following options for replying to the text message:

- Call Back
  Speak this command to call the sender of the text message using the Bluetooth® Hands-Free Phone System.

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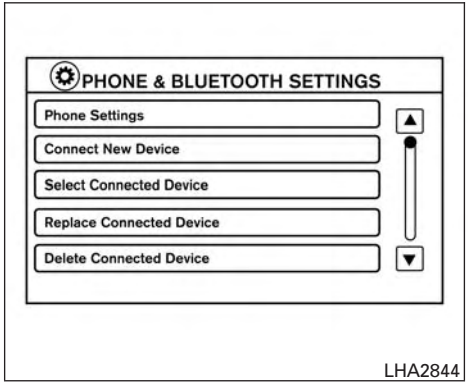
- Send Text
  Speak this command to send a text message response to the sender of the text message.
- Read Text
  Speak this command to read the text message again.
- Previous Text
  Speak this command to move to the previous text message (if available).
- Next Text
  Speak this command to move to the next text message (if available).

NOTE:

Text messages are only displayed if the vehicle speed is less than 5 mph (8 km/h).



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BLUETOOTH® SETTINGS

To access the phone settings:

1. Press the [APPS] button.
2. Touch the “Settings” key.
3. Touch the “Phone & Bluetooth” key.

Menu Item	Result
Phone Settings	For additional information, refer to “Phone settings” in this section.
Connect New Device	Select to connect a new Bluetooth® device to the Bluetooth® Hands-Free Phone System.
Select Connected Device	Select to choose a Bluetooth® device from a list of those devices connected to the Bluetooth® Hands-Free Phone System.
Replace Connected Device	Select to replace a Bluetooth® device from a list of those devices connected to the Bluetooth® Hands-Free Phone System.
Delete Connected Device	Select to delete a Bluetooth® device from a list of those devices connected to the Bluetooth® Hands-Free Phone System.
Bluetooth	Select to toggle Bluetooth® on and off.

Information Provided by:

PHONE SETTINGS

To access the phone settings:

1. Press the [APPS] button.
2. Touch the “Settings” key.
3. Touch the “Phone & Bluetooth” key.
4. Touch the “Phone Settings” key and adjust the following settings as desired:

- Sort Phonebook By:
  Select “First Name” or “Last Name” to choose how phonebook entries are alphabetically displayed on the screen.
- Use Phonebook From:
  Select “Handset” to use the phone’s phonebook. Select “SIM” to use the phonebook on the SIM card. Select “Both” to use both sources.
- Download Phonebook Now:
  Select to download the phonebook to the vehicle from the chosen source.
- Record Name for Phonebook Entry:
  Select to record a name for a phonebook entry for use with the NISSAN Voice Recognition System.
- Text Messaging:
  Select to toggle the text message functionality on or off.
- Show Incoming Text:
  Select to toggle text notification on or off.
- Auto Reply:
  Select to toggle auto reply functionality on or off.
- Auto Reply Message:
  Select to choose a message that is sent when the auto reply function is activated.
- Use Vehicle’s Signature:
  Select to toggle on or off the addition of the vehicle signature to outgoing messages.
- Custom Text Messages:
  Select the predefined messages that are used by the system.

The NISSAN Voice Recognition system allows hands-free operation of the systems equipped on this vehicle, such as the phone and navigation systems.

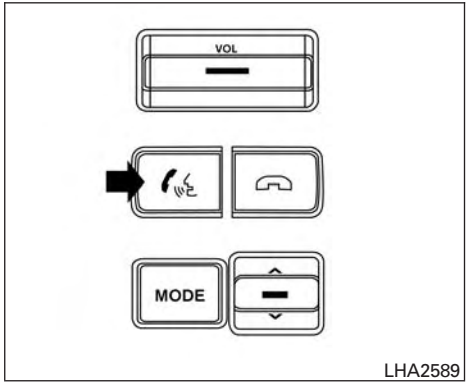
To operate NISSAN Voice Recognition, press the button located on the steering wheel. When prompted, speak the command for the system you wish to activate. The command given is picked up by the microphone and performed when it is properly recognized. NISSAN Voice Recognition will provide a voice response as well as a message in the center display to inform you of the command results.

USING THE SYSTEM

Initialization

When the ignition switch is in the ON position, NISSAN Voice Recognition is initialized, which takes a few seconds. When completed, the system is ready to accept voice commands. If the button is pressed before the initialization completes, the system will announce: “Voice Recognition System not ready. Please wait.”

Information Provided by: DOKKER E-PROCESS



LHA2589

Giving voice commands

1. Press the button.
2. The system announces: “Please say a category like phone or a command like points of interest followed by a brand name”. A list of available commands is then spoken by the system.
3. After the tone sounds and the face icon on the display changes, speak a command. Available commands are discussed in this section.
4. Voice and display feedback are provided when the command is accepted.

- If the command is not recognized, the system announces: “Command not recognized”. Repeat the command in a clear voice.
- If you want to cancel the command or go back to the previous menu of commands, press the button. The system will announce: “Cancelling Voice Recognition” or “Go back” depending on the current menu level.
- Press the button to move back through the menus displayed on the screen.
- If you want to adjust the volume of the voice feedback, use the volume control switches on the steering wheel or the volume knob on the control panel.
- The voice command screen can also be accessed using the control panel display:

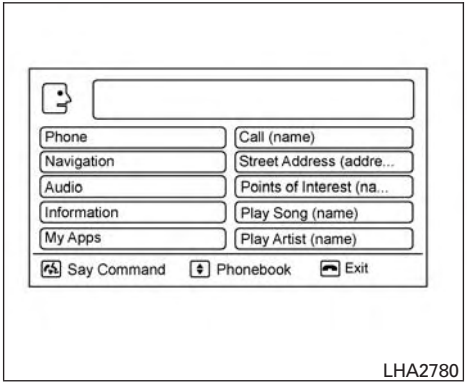
1. Press the [APPS] button.
2. Touch the “Voice Commands” key.

Operating tips

To get the best performance out of NISSAN Voice Recognition, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate the surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing the voice commands correctly.
- Wait until a tone sounds before speaking a command. Otherwise, the command will not be received properly.
- Start speaking a command within 3.5 seconds after the tone sounds.
- Speak in a natural voice without pausing between words.

Information Provided by:



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SYSTEM FEATURES

NISSAN Voice Recognition can activate the following systems:

- Bluetooth® Hands-Free Phone System
- Navigation
- Audio
- Information
- My Apps

For additional information on the navigation system, refer to the separate Navigation System Owner's Manual.

How to say numbers

NISSAN Voice Recognition requires a certain way to speak numbers in voice commands. Refer to the following examples.

General rule: Either "zero" or "oh" can be used for "0".

Phone numbers

Speak phone numbers according to the following example. For 1-800-662-6200, say dial number and then speak the phone number in any of the following formats:

- "one eight oh oh six six two six two oh oh"
- "one eight hundred six six two six two oh oh"
- "one eight zero zero six six two six two oh oh"

For the best voice recognition phone dialing results, say phone numbers as single digits. Also, full numbers can only be spoken for "800". For example, you cannot say 555-6000 as "five five five six thousand".

BLUETOOTH® HANDS-FREE PHONE SYSTEM VOICE COMMANDS

To access the Bluetooth® Hands-Free Phone System voice commands:

1. Press the button.
2. Say "Call" and then a name in the vehicle phonebook to call that entry. Otherwise, say "Phone" to access various phone commands.

If the Bluetooth® has been set to "Off", the system announces: "Bluetooth® is off. Would you like to turn Bluetooth® on?"

If no phone is connected to the system and the vehicle is stationary, the system announces: "There is no phone connected. Would you like to connect a phone now?" Say "Yes" to connect a phone. All further Bluetooth® Hands-Free Phone System voice commands are only available if a phone is connected.

If a phone is connected and Bluetooth® is set to "On", the following voice commands are available:

- Call (a name)

  Speak the name of the contact in which you are trying to call. System will confirm correct contact. Say "Dial" to initiate dialing.

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- Dial Number

  Allows for up to 24 digits to be dialed. After the number is entered, say “Dial” to initiate dialing. Say “Correction” to correct the number entered. Say “Go Back” to return to the main menu.

- List Phonebook

  Starting with the first alphabetical entry in the vehicle phonebook, the system prompts for an additional command. Say “Dial” to call the number of the phonebook entry. Say “Send Text” to send a text message to the number of the phonebook entry. Say “Next Entry” to skip to the next alphabetical entry in the vehicle phonebook, where the same options will then be available.

- Recent Calls

  The system prompts for an additional command. Say “Missed Calls”, “Incoming Calls” or “Outgoing Calls” to display a list of such calls on the screen.

  Speak the number of the entry displayed on the screen to dial that number or say “Next Page” to view entries on the next page (if available).

- Redial

  Redials the last called number.

- Read Text

  Reads an incoming text message. For additional information about text messaging with the Bluetooth® Hands-Free Phone System, refer to “Bluetooth® Hands-Free Phone System with Navigation System” in this section.

- Send Text

  Sends a text message. For additional information about text messaging with the Bluetooth® Hands-Free Phone System, refer to “Bluetooth® Hands-Free Phone System with Navigation System” in this section.

- Select Phone

  The system replies “Please use manual controls to continue”. Use manual controls to change the active phone from among the listed phones connected to the vehicle.

For additional information about the Bluetooth® Hands-Free Phone System, refer to “Bluetooth® Hands-Free Phone System with Navigation System” in this section.

NAVIGATION SYSTEM VOICE COMMANDS

The following voice commands are available for the Navigation System:

- Street Address (address)
- Points of Interest (name)
- POI by Category
- Home
- Address Book
- Previous Destinations
- Enter Address in Steps
- Cancel Route

For additional information, refer to the separate Navigation System Owner’s Manual.

AUDIO SYSTEM VOICE COMMANDS

To access the audio system voice commands:

1. Press the button.
2. Say “Audio”

Information Provided by:

3. Speak a command from the following available commands:

- Play (AM, FM, etc.)

  Allows user to select radio band

- Tune AM (number)

  Allows user to tune directly to a desired AM frequency

- Tune FM (number)

  Allows user to tune directly to a desired FM frequency

- SXM channel (number)

  Allows user to tune directly to a desired SXM station (if so equipped)

- CD Track (number)

  Allows user to select track to be played

- Play Song (name)

  Allows user to select song name to be played

- Play Artist (name)

  Allows user to select artist to be played

- Play Album (name)

  Allows user to select album name to be played

For additional information, refer to “Audio system” in this section.

INFORMATION VOICE COMMANDS

The following voice commands are available for the information functions of the Navigation System:

- Traffic
- Fuel Prices
- Stocks
- Movie Listings
- Current Weather
- Weather Map
- 5 — day Forecast
- 6 — hour Forecast

For additional information about these commands, refer to the separate Navigation System Owner’s Manual.

MY APPS VOICE COMMANDS

Many Apps can be accessed using this voice command. For additional information, refer to “NissanConnect[SM] Mobile Apps” in this section.

HELP VOICE COMMANDS

The following voice commands can be spoken to have the system provide instructions and tips for using the NISSAN Voice Recognition system.

- List Commands
- What Can I Say?
- General Help
- Quit
- Exit

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TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error. Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

Symptom/error message	Solution
The system responds “Command Not Recognized” or the system fails to recognize the command correctly.	1. Ensure that the command format is valid. Use the “List Commands” or “What Can I Say?” command under the “Help” menu.
	2. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.
	3. Ensure that the ambient noise level is not excessive (for example, with the windows open or the defroster on). **NOTE:** **If it is too noisy to use the phone, it is likely that voice commands will not be recognized.**
	4. If optional words of the command have been omitted, then the command should be tried with these in place.

Information Provided by:

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⚠WARNING

- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

EXHAUST GAS (carbon monoxide)

⚠WARNING

- **Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**
- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for any extended length of time.**
- **Keep the rear vent windows, liftgates, doors and trunk lids (if so equipped) closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with one of these open, follow these precautions:**
  1. **Open all the windows.**
  2. **Set the air recirculation button to off and the fan control dial to high to circulate the air.**
- **If electrical wiring or other cable connections must pass to a trailer through the seal on the liftgate or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  a. **The vehicle is raised for service.**
  b. **You suspect that exhaust fumes are entering into the passenger compartment.**
  c. **You notice a change in the sound of the exhaust system.**
  d. **You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.**
- **If a special body, camper, or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. Do not occupy these areas while the engine is running even if the vehicle is parked. Some recreational vehicle appliances such as stoves, refrigerators, heaters, etc. may also generate carbon monoxide.**

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THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

⚠ WARNING

- **The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**

⚠ CAUTION

- **Do not use leaded gasoline. Deposits from leaded gasoline will seriously reduce the three-way catalyst's ability to help reduce exhaust pollutants.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by a NISSAN dealer.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

TIRE PRESSURE MONITORING SYSTEM (TPMS)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when 1 or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately 1 minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the mal-

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function exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing 1 or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information:

- **The TPMS does not monitor the tire pressure of the spare tire.**
- The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).
- The low tire pressure warning light does not automatically turn off when the tire pressure of your tires are adjusted. After the tires are inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.
- The CHECK TIRE PRES (pressure) warning message is displayed in the odometer when the low tire pressure warning light is illuminated and low tire pressure is detected. The CHECK TIRE PRES warning message turns off when the low tire pressure warning light turns off. The low tire pressure warning light remains illuminated until the tires are inflated to the recommended COLD tire pressure. The CHECK TIRE PRES warning message is displayed each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated. For additional information, refer to “Check tire pressure warning message” in the “Instruments and controls” section of this manual.
- The CHECK TIRE PRES warning is not displayed if the low tire pressure warning light illuminates to indicate a TPMS malfunction.
- Tire pressure rises and falls depending on the heat caused by the vehicle’s operation and the outside temperature. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates, check the tire pressure for all 4 tires.
- The Tire and Loading Information label (also referred to as the vehicle placard or tire inflation pressure label) is located in the driver’s door opening.

For additional information, refer to “Low tire pressure warning light” in the “Instruments and controls” section and “Tire Pressure Monitoring System (TPMS)” in the “In case of emergency” section of this manual.

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⚠ WARNING

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with underinflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all 4 tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If you have a flat tire, replace it with a spare tire as soon as possible. For additional information, refer to "Flat tire" in the "In case of emergency" section of this manual for changing a flat tire.**
- **When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

⚠ CAUTION

Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.

Some devices and transmitters may temporarily interfere with the operation of the TPMS and cause the low tire pressure warning light to illuminate.

Some examples are:

– Facilities or electric devices using similar radio frequencies are near the vehicle.

– If a transmitter set to similar frequencies is being used in or near the vehicle.

– If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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NOTE:

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

ON-PAVEMENT AND OFF-ROAD DRIVING PRECAUTIONS

Utility vehicles have a significantly higher rollover rate than other types of vehicles.

They have higher ground clearance than passenger cars to make them capable of performing in a variety of on-pavement and off-road applications. This gives them a higher center of gravity than ordinary vehicles. An advantage of higher ground clearance is a better view of the road, allowing you to anticipate problems. However, they are not designed for cornering at the same speeds as conventional 2-wheel drive vehicles any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. If at all possible, avoid sharp turns at high speeds. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover. In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

For additional information, refer to "Driving safety precautions" in this section.

AVOIDING COLLISION AND ROLLOVER

⚠WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, loss of control could result in a collision with other vehicles or objects or cause the vehicle to roll over, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in the "Safety – Seats, seat belts and supplemental restraint system" section of this manual, and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in collisions and rollovers. **In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.**

OFF-ROAD RECOVERY

While driving, the right side or left side wheels may unintentionally leave the road surface. If this occurs, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

1. Remain calm and do not overreact.
2. Do not apply the brakes.
3. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.

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4. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
5. If there is nothing in the way, steer the vehicle to follow the road while vehicle speed is reduced. Do not attempt to drive the vehicle back onto the road surface until vehicle speed is reduced.
6. When it is safe to do so, gradually turn the steering wheel until both tires return to the road surface. When all tires are on the road surface, steer the vehicle to stay in the appropriate driving lane.

- If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

RAPID AIR PRESSURE LOSS

Rapid air pressure loss or a “blow-out” can occur if the tire is punctured or is damaged due to hitting a curb or pothole. Rapid air pressure loss can also be caused by driving on under-inflated tires.

Rapid air pressure loss can affect the handling and stability of the vehicle, especially at highway speeds.

Help prevent rapid air pressure loss by maintaining the correct air pressure and visually inspect the tires for wear and damage. For additional information, refer to “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual. If a tire rapidly loses air pressure or “blows-out” while driving, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

⚠WARNING

The following actions can increase the chance of losing control of the vehicle if there is a sudden loss of tire air pressure. Losing control of the vehicle may cause a collision and result in personal injury.

- **The vehicle generally moves or pulls in the direction of the flat tire.**
- **Do not rapidly apply the brakes.**
- **Do not rapidly release the accelerator pedal.**
- **Do not rapidly turn the steering wheel.**

1. Remain calm and do not overreact.
2. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
3. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
4. Gradually steer the vehicle to a safe location off the road and away from traffic if possible.
5. Lightly apply the brake pedal to gradually stop the vehicle.
6. Turn on the hazard warning flashers and contact a roadside emergency service to change the tire. For additional information, refer to “Changing a flat tire” in the “In case of emergency” section of this manual.

DRINKING ALCOHOL/DRUGS AND DRIVING

⚠WARNING

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

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NISSAN is committed to safe driving. However, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol-related collisions. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix! That is true for drugs (over-the-counter, prescription) and illegal drugs too. Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

DRIVING SAFETY PRECAUTIONS

Your NISSAN is designed for both normal and off-road use. However, avoid driving in deep water or mud as your NISSAN is mainly designed for leisure use, unlike a conventional off-road vehicle.

Remember that 2-wheel drive models are less capable than 4-wheel drive models for rough road driving and extrication when stuck in deep snow or mud, or the like.

Please observe the following precautions:

⚠ WARNING

- **Drive carefully when off the road and avoid dangerous areas. Every person who drives or rides in this vehicle should be seated with their seat belt fastened. This will keep you and your passengers in position when driving over rough terrain.**
- **Do not drive across steep slopes. Instead drive either straight up or straight down the slopes. Off-road vehicles can tip over sideways much more easily than they can forward or backward.**
- **Many hills are too steep for any vehicle. If you drive up them, you may stall. If you drive down them, you may not be able to control your speed. If you drive across them, you may roll over.**
- **Do not shift gears while driving on downhill grades as this could cause loss of control of the vehicle.**
- **Stay alert when driving to the top of a hill. At the top there could be a drop-off or other hazard that could cause an accident.**
- **If your engine stalls or you cannot make it to the top of a steep hill, never attempt to turn around. Your vehicle could tip or roll over. Always back straight down in R (Reverse) gear. Never back down in N (Neutral) or with the clutch depressed (manual transmission vehicles), using only the brake, as this could cause loss of control.**
- **Heavy braking going down a hill could cause your brakes to overheat and fade, resulting in loss of control and an accident. Apply brakes lightly and use a low gear to control your speed. Use the hill descent control feature (if so equipped).**
- **Unsecured cargo can be thrown around when driving over rough terrain. Properly secure all cargo so it will not be thrown forward and cause injury to you or your passengers.**
- **To avoid raising the center of gravity excessively, do not exceed the rated capacity of the roof rack (if so equipped) and evenly distribute the load. Secure heavy loads in the cargo area as far forward and as low as possible. Do not equip the vehicle with tires larger than specified in this manual. This could cause your vehicle to roll over.**

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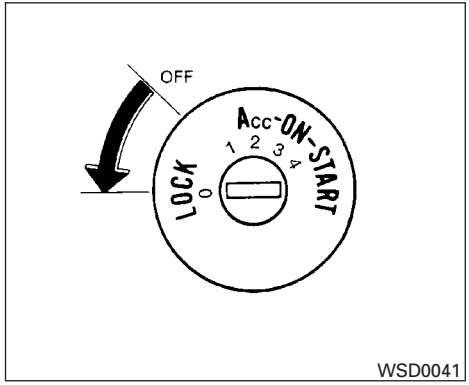
- Do not grip the inside or spokes of the steering wheel when driving off-road. The steering wheel could move suddenly and injure your hands. Instead drive with your fingers and thumbs on the outside of the rim.
- Before operating the vehicle, ensure that the driver and all passengers have their seat belts fastened.
- Always drive with the floor mats in place as the floor may become hot.
- Lower your speed when encountering strong crosswinds. With a higher center of gravity, your NISSAN is more affected by strong side winds. Slower speeds ensure better vehicle control.
- Do not drive beyond the performance capability of the tires, even with 4WD engaged (if so equipped).
- For 4WD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.
- Do not attempt to test a 4WD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment even if the other two wheels are raised off the ground. Make sure you inform test facility personnel that your vehicle is equipped with 4WD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.
- Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.
- If at all possible, avoid sharp turning maneuvers, particularly at high speeds. Your NISSAN four-wheel drive vehicle has a higher center of gravity than a passenger car. The vehicle is not designed for cornering at the same speeds as passenger cars. Failure to operate this vehicle correctly could result in loss of control and/or a rollover accident.
- Always use tires of the same type, size, brand, construction (bias, bias-belted, or radial), and tread pattern on all four wheels. Install tire chains on the rear wheels when driving on slippery roads and drive carefully.
- Be sure to check the brakes immediately after driving in mud or water. For additional information, refer to “Brake system” in this section for “Wet brakes”
- Avoid parking your vehicle on steep hills. If you get out of the vehicle and it rolls forward, backward or sideways, you could be injured.
- Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required. For additional information, refer to “Periodic maintenance” in the “NISSAN Service and Maintenance Guide.

Information Provided by:
DEALER E-PROCESS

⚠WARNING

- **Never remove the ignition key or place the ignition switch in the LOCK position while driving. The steering wheel will lock (for models with a steering lock mechanism). This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.**



AUTOMATIC TRANSMISSION (if so equipped)

The ignition lock is designed so the ignition switch cannot be placed in the LOCK position and the key removed until the shift lever is moved to the P (Park) position.

When removing the key from the ignition, make sure the shift lever is in the P (Park) position.

If the shift lever is not returned to P (Park) position, the ignition switch cannot be moved to the LOCK position.

To remove the key from the ignition switch:

1. Shift the shift lever to the P (Park) position with the ignition switch in the ON position.
2. Place the ignition switch to the LOCK position.
3. Remove the key from the ignition.

If the shift lever is shifted to the P (Park) position after the ignition switch is placed in the OFF position or when the ignition switch cannot be turned to the LOCK position, proceed as follows to remove the key.

1. Move the shift lever into the P (Park) position.
2. Turn the ignition key slightly toward the ON position.
3. Turn the key to the LOCK position.
4. Remove the key.

The shift lever is designed so it cannot moved out of P (Park) and into any of the other gear positions if the ignition key is turned to OFF position or if the key is removed from the switch.

The shift lever can be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.

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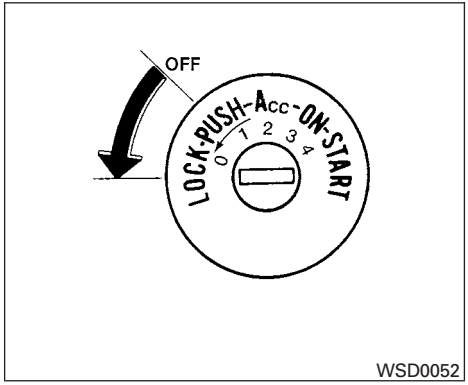
DEALER E-PROCESS

There is an OFF position between the LOCK and ON positions. The OFF position is indicated by a “1” on the ignition switch. When the ignition is in the OFF position, the steering wheel is not locked (for models with a steering lock mechanism).

In order for the steering wheel to be locked, it must be turned about 1/8 of a turn clockwise from the straight up position.

To lock the steering wheel, turn the key to the LOCK position. Remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

If the key will not turn from the LOCK position, turn the steering wheel to the left or right while turning the key to unlock the key cylinder.



WSD0052

MANUAL TRANSMISSION (if so equipped)

The ignition switch includes a device that helps prevent accidental removal of the key while driving.

The key can only be removed when the ignition switch is in the LOCK position.

On manual transmission models, to turn the ignition switch to the LOCK position from the ACC or ON position, place the ignition switch in the OFF position, push the key in, then place the ignition switch in LOCK position.

KEY POSITIONS

LOCK: Normal parking position (0)

OFF: (Not used) (1)

ACC: (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running.

ON: Normal operating position (3)

This position turns on the ignition system and the electrical accessories.

START: (4)

This position starts the engine. As soon as the engine has started, release the key. It automatically returns to the ON position.

Information Provided by:
DEALER E-PROCESS

NISSAN VEHICLE IMMOBILIZER SYSTEM (if so equipped)

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of the registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position, and wait approximately 10 seconds.
3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.

- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake and clutch fluid (if so equipped), and windshield-washer fluid as frequently as possible, or at least whenever you refuel.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Check that all doors are closed.
- Position seat and adjust head restraints/headrests.
- Adjust inside and outside mirrors.
- Fasten the seat belt and ask all passengers to do likewise.
- Check the operation of warning lights when the key is turned to the ON position. For additional information, refer to “Warning/indicator lights and audible reminders” in the “Instruments and controls” section of this manual.

1. Apply the parking brake.
2. **Automatic transmission:**

   Move the shift lever to P (Park) or N (Neutral). P (Park) is recommended.

   The shift lever cannot be moved out of the P (Park) position and into any of the other gear positions if the ignition switch is placed in the OFF position or if the key is removed from the ignition switch.

   The starter is designed not to operate if the shift lever is in any of the driving positions.

   Manual transmission:

   Move the shift lever to N (Neutral). Depress the clutch pedal to the floor while cranking the engine.

   The starter is designed not to operate unless the clutch pedal is fully depressed.
3. Crank the engine **with your foot off the accelerator pedal** by placing the ignition switch in the START position. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

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- If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and hold it and then crank the engine. Release the key and the accelerator pedal when the engine starts.
- If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Crank the engine for 5-6 seconds. After cranking the engine, release the accelerator pedal. Crank the engine **with your foot off the accelerator pedal** by placing the ignition in the START position. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

⚠CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, turn the key off and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)
2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

AUTOMATIC TRANSMISSION (if so equipped)

⚠WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive), 3, 2 or 1. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Never shift to P (Park) or R (Reverse) while the vehicle is moving. This could cause an accident.**
- **Except in an emergency, do not shift to the N (Neutral) position while driving. Coasting with the transmission in the N (Neutral) position may cause serious damage to the transmission.**
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**

Information Provided by: DEALER E-PROCESS

⚠CAUTION

- **Except in an emergency, do not shift to the N (Neutral) position while driving. Coasting with the transmission in the N (Neutral) position may cause serious damage to the transmission.**
- **When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.**

The automatic transmission in your vehicle is electronically controlled to produce maximum power and smooth operation.

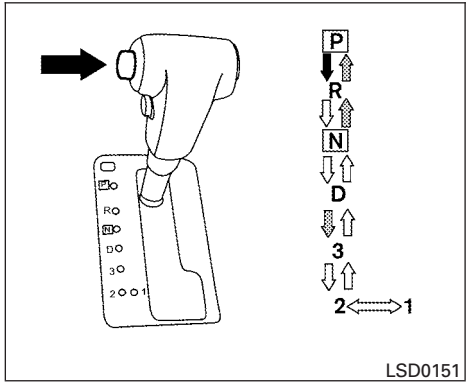
The recommended operating procedures for this transmission are shown on the following pages. Follow these procedures for maximum vehicle performance and driving enjoyment.

Starting the vehicle

1. After starting the engine, fully depress the foot brake pedal before moving the shift lever out of the P (Park) position.
2. Keep the foot brake pedal depressed and move the shift lever into a driving gear.
3. Release the foot brake, then gradually start the vehicle in motion.

The automatic transmission is designed so the foot brake pedal MUST be depressed before shifting from P (Park) to any drive position while the ignition switch is in the ON position.

The shift lever cannot be moved out of the P (Park) position and into any of the other gear positions if the ignition switch is placed in the LOCK or OFF position.



To move the shift lever:

➡ Push the button while depressing the brake pedal

⇛ Push the button to shift

⇨ Shift without depressing brake pedal

Shifting

After starting the engine, fully depress the brake pedal and move the shift lever out of the P (Park) position.

Information Provided by:
DEALER E-PROCESS

⚠ WARNING

Apply the parking brake if the shift lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

If the ignition switch is placed in the OFF position for any reason while the vehicle is in N (Neutral), or any D (Drive) position, the ignition switch cannot be placed in the LOCK position and the key cannot be removed from the ignition switch. Move the shift lever to the P (Park) position, then the ignition switch can be placed in LOCK.

P (Park)

⚠ CAUTION

To prevent transmission damage, use the P (Park) or R (Reverse) position only when the vehicle is completely stopped.

Use the P (Park) shift lever position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. **The brake pedal should be depressed to move the shift lever from N (Neutral) or any drive position to P (Park).** Apply the parking brake. When parking on a hill, apply the parking brake first, then move the shift lever into the P (Park) position.

R (Reverse)

⚠ CAUTION

To prevent transmission damage, use the P (Park) or R (Reverse) position only when the vehicle is completely stopped.

Use the R (Reverse) position to back up. Make sure the vehicle is completely stopped before selecting the R (Reverse) position. **The brake pedal must be depressed to move the shift lever from P (Park), N (Neutral) or any drive position to R (Reverse).**

N (Neutral)

Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

D (Drive)

Use this position for all normal forward driving.

3 (Third gear):

Use this position for driving up and down long slopes where engine braking would be advantageous.

Do not downshift into the 3 position at speeds over the following and do not exceed the following speeds in the 3 position.

2WD:

99 MPH (160 km/h)

4H:

93 MPH (150 km/h)

4LO:

34 MPH (55 km/h)

2 (Second gear):

Use this position for hill climbing or engine braking on downhill grades.

Do not downshift into the 2 position at speeds over the following and do not exceed the following speeds in the 2 position.

2WD:

62 MPH (100 km/h)

4H:

59 MPH (95 km/h)

4LO:

21 MPH (35 km/h)

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1 (Low gear):

Use this position when climbing steep hills slowly or slow driving through deep snow, sand or mud, or for maximum engine braking on steep downhill grades.

Do not downshift into the 1 position at speeds over the following and do not exceed the following speeds in the 1 position.

2WD:

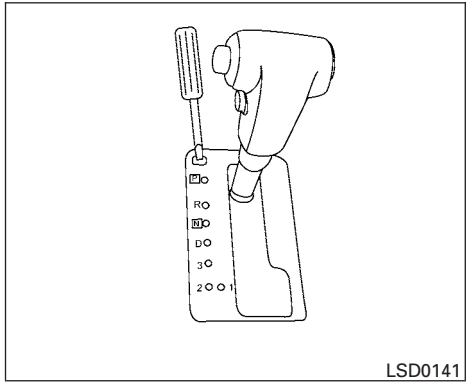
37 MPH (60 km/h)

4H:

37 MPH (60 km/h)

4LO:

12 MPH (20 km/h)



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Shift lock release

If the battery is discharged, the shift lever may not be moved from the P (Park) position even with the brake pedal depressed.

To move the shift lever, release the shift lock. The shift lever can be moved to N (Neutral). However, the steering wheel will be locked unless the ignition switch is placed in the ON position (for models with a steering lock mechanism). This allows the vehicle to be moved if the battery is discharged.

To push the shift lock release, complete the following procedure:

1. Place the ignition switch in the LOCK position and remove the key.
2. Apply the parking brake.
3. Remove the shift lock release cover as shown.
4. Use a protective cloth on the tip of a small screwdriver before inserting it in the shift lock release slot and pushing down.
5. Move the shift lever to the N (Neutral) position while holding down the shift lock release.
6. Place the ignition switch in the ON position to unlock the steering wheel (for models with a steering lock mechanism).
7. Now the vehicle may be moved to the desired location.

If the shift lever cannot be moved out of P (Park), have a NISSAN dealer check the automatic transmission system as soon as possible.

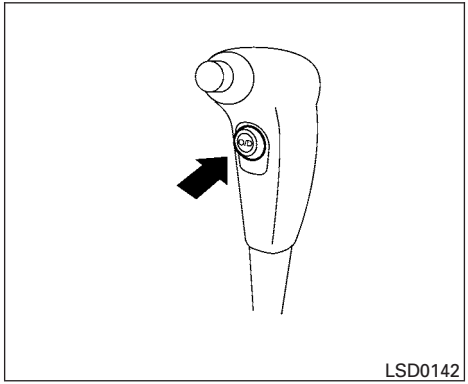
Information Provided by:
DEALER E-PROCESS

⚠WARNING

If the shift lever cannot be moved from the P (Park) position while the engine is running and the brake pedal is depressed, the stop lights may not work. Malfunctioning stop lights could cause an accident injuring yourself and others.

Accelerator downshift — in D (Drive) position —

For passing or hill climbing, depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.



LSD0142

Overdrive (O/D) OFF switch

Each time your vehicle is started, the transmission is automatically “reset” to overdrive ON.

ON: With the engine running and the shift lever in the D (Drive) position, the transmission upshifts into Overdrive as vehicle speed increases.

Overdrive does not engage until the engine has reached operating temperature.

OFF: For driving up and down long slopes where engine braking is necessary push the Overdrive switch once. The O/D OFF indicator light in the instrument panel comes on at this time.

When cruising at a low speed or climbing a gentle slope, you may feel uncomfortable shift shocks as the transmission shifts into and out of Overdrive repeatedly. In this case, depress the Overdrive switch to turn the Overdrive off. The O/D OFF indicator light in the instrument panel comes on at this time.

When driving conditions change, depress the Overdrive switch to turn the Overdrive on.

Remember not to drive at high speeds for extended periods of time with the Overdrive off. This reduces fuel economy.

Information Provided by: DEALER E-PROCESS

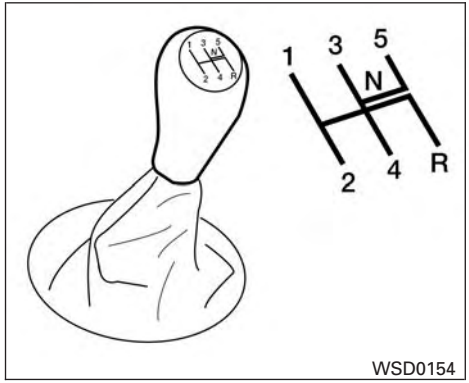
MANUAL TRANSMISSION (if so equipped)

⚠ WARNING

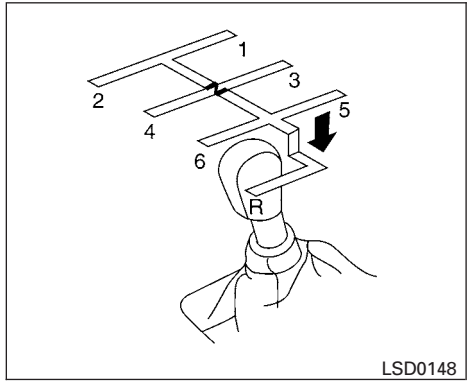
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Do not over-rev the engine when shifting to a lower gear. This may cause a loss of control or engine damage.**

⚠ CAUTION

- **Do not rest your foot on the clutch pedal while driving. This may cause clutch damage.**
- **Fully depress the clutch pedal before shifting to help prevent transmission damage.**
- **Stop your vehicle completely before shifting into R (Reverse).**
- **When the vehicle is stopped with the engine running (for example, at a stop light), shift to N (Neutral) and release the clutch pedal with the foot brake applied.**



5 - speed



6 - speed

Shifting

To change gears, or when upshifting or downshifting, depress the clutch pedal fully, shift into the appropriate gear, then release the clutch slowly and smoothly.

To ensure smooth gear changes, fully depress the clutch pedal before operating the shift lever. If the clutch pedal is not fully depressed before the transmission is shifted, a gear noise may be heard. Transmission damage could occur.

Start the vehicle in 1st gear and shift to 2nd, 3rd, 4th, 5th and 6th gear in sequence according to vehicle speed.

To back up depress the shift lever and then move it to the R (Reverse) position after stopping the vehicle completely.

On the 5-speed manual transmission model, you cannot shift directly from the 5th gear into R (Reverse). First shift into N (Neutral), then in to R (Reverse) after stopping the vehicle completely.

If it is difficult to move the shift lever into R (Reverse) or 1 (First), shift into N (Neutral), then release the clutch pedal. Fully depress the clutch pedal again and shift into R (Reverse) or 1 (First).

If your vehicle is equipped with 4-wheel drive, refer to “Transfer case shifting procedures” in this section.

Information Provided by:
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Suggested up-shift speeds

The following are suggested vehicle speeds for shifting into a higher gear. These suggestions relate to fuel economy and vehicle performance. Actual upshift speeds will vary according to road conditions, the weather and individual driving habits.

- For QR25DE 2-wheel drive models:

GEAR CHANGE	MPH (km/h)
1st to 2nd	11 (17)
2nd to 3rd	15 (24)
3rd to 4th	24 (38)
4th to 5th	35 (56)

- For VQ40DE 4-wheel drive models and 4-wheel drive models (2H and 4H position):

GEAR CHANGE	MPH (km/h)
1st to 2nd	11 (17)
2nd to 3rd	17 (27)
3rd to 4th	25 (40)
4th to 5th	32 (51)
5th to 6th	45 (72)

Suggested maximum speed in each gear

Downshift to a lower gear if the engine is not running smoothly, or if you need to accelerate.

Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions, which will ensure safe operation. Do not over-rev the engine when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

Allowable maximum speed in each gear:

2–wheel drive models (QR25DE engine)

GEAR	MPH (km/h)
1st	34 (54)
2nd	58 (94)
3rd	89 (144)
4th	—
5th	—

2–wheel drive models (VQ40DE engine)

GEAR	MPH (km/h)
1st	35 (56)
2nd	60 (97)
3rd	87 (141)
4th	—
5th	—

4–wheel drive models (VQ40DE engine)

2H/4H position

GEAR	MPH (km/h)
1st	33 (54)
2nd	58 (93)
3rd	84 (135)
4th	—
5th	—
6th	—

4L position

GEAR	MPH (km/h)
1st	12 (20)
2nd	22 (35)
3rd	32 (51)
4th	43 (70)
5th	55 (89)
6th	—

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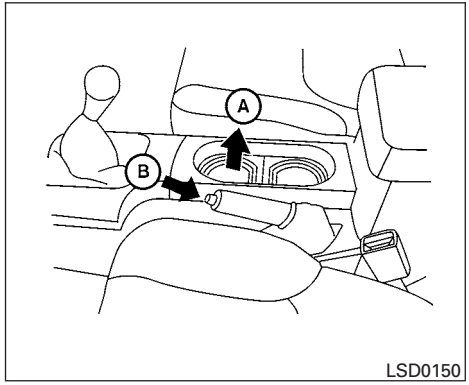
⚠WARNING

- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the shift lever in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.**



LSD0150

To engage: Pull the parking brake lever up Ⓐ.

To release:

1. Firmly apply the foot brake.
2. **Manual transmission models:**

   Place the shift lever in the N (Neutral) position.

   Automatic transmission models:

   Move the shift lever to the P (Park) position.
3. While pulling up on the parking brake lever slightly, push the button Ⓑ and lower the lever completely .
4. Before driving, be sure the brake warning light goes out.

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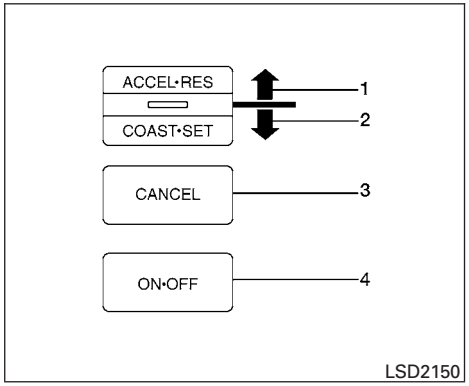

PRECAUTIONS ON CRUISE CONTROL

1. ACCEL▪RES switch
2. COAST▪SET switch
3. CANCEL switch
4. ON▪OFF switch

- If the cruise control system malfunctions, it cancels automatically. The SET indicator light in the instrument panel then blinks to warn the driver.
- If the SET indicator light blinks, turn the cruise control main switch off and have the system checked by a NISSAN dealer.
- The SET indicator light may blink when the cruise control main switch is turned ON while pushing the ACCEL▪RES, COAST▪SET, or CANCEL switch (located on the steering wheel). To properly set the cruise control system, use the following procedures.

⚠WARNING

Do not use the cruise control when driving under the following conditions:

- **When it is not possible to keep the vehicle at a set speed.**
- **In heavy traffic or in traffic that varies in speed.**
- **On winding or hilly roads.**
- **On slippery roads (rain, snow, ice, etc.).**
- **In very windy areas.**

Doing so could cause a loss of vehicle control and result in an accident.

⚠CAUTION

On manual transmission models, do not shift into N (Neutral) without depressing the clutch pedal when the cruise control is set. Should this occur, depress the clutch pedal and turn the main switch off immediately. Failure to do so may cause engine damage.

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 25 - 89 MPH (40 - 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the main switch. The CRUISE indicator light in the instrument panel comes on.

To set cruising speed, accelerate the vehicle to the desired speed, push the COAST/SET switch and release it. The SET indicator light in the instrument panel comes on. Take your foot off the accelerator pedal. Your vehicle maintains the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle returns to the previously set speed.

Information Provided by: DEALER E-PROCESS

- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, drive without the cruise control.

To cancel the preset speed, use one of the following three methods.

- Push the CANCEL button; the SET indicator light in the instrument panel goes out.
- Tap the brake pedal; the SET indicator light goes out.
- Turn the main switch off. Both the CRUISE indicator light and SET indicator light in the instrument panel go out.

The cruise control is automatically canceled and the SET light in the instrument panel goes out if:

- you depress the brake or clutch pedal while pushing the ACCEL/RES or COAST/SET switch. The preset speed is deleted from memory.
- the vehicle slows down more than 8 MPH (13 km/h) below the set speed.
- you depress the clutch pedal (manual transmission), or move the shift lever to N (Neutral) (automatic transmission).

To reset at a faster cruising speed, use one of the following three methods.

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.
- Push and hold the ACCEL/RES switch. When the vehicle attains the speed you desire, release the switch.
- Push and release the ACCEL/RES switch. Each time you do this, the set speed increases by about 1 MPH (1.6 km/h).

To reset at a slower cruising speed, use one of the following three methods.

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.
- Push and hold the COAST/SET switch. Release the switch when the vehicle slows to the desired speed.
- Push and release the COAST/SET switch. Each time you do this, the set speed decreases by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the ACCEL/RES switch. The vehicle returns to the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

⚠ CAUTION

During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow, and do not run the engine over 4,000 RPM.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 mi (805 km). Your engine, axle or other parts could be damaged.

Information Provided by: DEALER E-PROCESS

FUEL EFFICIENT DRIVING TIPS

Follow these easy-to-use Fuel Efficient Driving Tips to help you achieve the most fuel economy from your vehicle.

1. **Use Smooth Accelerator and Brake Pedal Application**
   - Avoid rapid starts and stops.
   - Use smooth, gentle accelerator and brake application whenever possible.
   - Maintain constant speed while commuting and coast whenever possible.
2. **Maintain Constant Speed**
   - Look ahead to try and anticipate and minimize stops.
   - Synchronizing your speed with traffic lights allows you to reduce your number of stops.
   - Maintaining a steady speed can minimize red light stops and improve fuel efficiency.
3. **Use Air Conditioning (A/C) at Higher Vehicle Speeds**
   - Below 40 MPH (64 km/h), it is more efficient to open windows to cool the vehicle due to reduced engine load.
   - Above 40 MPH (64 km/h), it is more efficient to use A/C to cool the vehicle due to increased aerodynamic drag.
   - Recirculating the cool air in the cabin when the A/C is on reduces cooling load.
4. **Drive at Economical Speeds and Distances**
   - Observing the speed limit and not exceeding 60 MPH (97 km/h) (where legally allowed) can improve fuel efficiency due to reduced aerodynamic drag.
   - Maintaining a safe following distance behind other vehicles reduces unnecessary braking.
   - Safely monitoring traffic to anticipate changes in speed permits reduced braking and smooth acceleration changes.
   - Select a gear range suitable to road conditions.
5. **Use Cruise Control**
   - Using cruise control during highway driving helps maintain a steady speed.
   - Cruise control is particularly effective in providing fuel savings when driving on flat terrains.
6. **Plan for the Shortest Route**
   - Utilize a map or navigation system to determine the best route to save time.
7. **Avoid Idling**
   - Shutting off your engine when safe for stops exceeding 30–60 seconds saves fuel and reduces emissions.
8. **Buy an Automated Pass for Toll Roads**
   - Automated passes permit drivers to use special lanes to maintain cruising speed through the toll and avoid stopping and starting.
9. **Winter Warm Up**
   - Limit idling time to minimize impact to fuel economy.
   - Vehicles typically need no more than 30 seconds of idling at start-up to effectively circulate the engine oil before driving.
   - Your vehicle will reach its ideal operating temperature more quickly while driving versus idling.

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10. **Keeping your Vehicle Cool**
    - Park your vehicle in a covered parking area or in the shade whenever possible.
    - When entering a hot vehicle, opening the windows will help to reduce the inside temperature faster, resulting in reduced demand on your A/C system.
    - Keep your engine tuned up.
    - Follow the recommended scheduled maintenance.
    - Keep the tires inflated to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
    - Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
    - For vehicles equipped with 4x4, use 4H or 4L position only when necessary. Four-wheel drive operation lowers fuel economy.
    - Use the recommended viscosity engine oil. For additional information, refer to “Engine oil and oil filter recommendations” in the “Technical and consumer information” section of this manual.

4x4 USING FOUR WHEEL DRIVE (4WD) (if so equipped)

⚠ WARNING

- **For 4WD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **Do not attempt to test a 4WD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment even if the other two wheels are raised off the ground. Make sure you inform test facility personnel that your vehicle is equipped with 4WD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**

Information Provided by: DEALER E-PROCESS

⚠CAUTION

- **Do not drive the vehicle in the 4H or 4LO position on dry hard surface roads. Driving on dry, hard surfaces in 4H or 4LO may cause unnecessary noise, tire wear and increased fuel consumption.**

  If the 4WD warning light turns on when you are driving on dry hard surface roads:

  - **in the 4H position, shift the 4WD shift switch to 2WD.**
  - **in the 4LO position for automatic transmission vehicles, stop the vehicle and shift the shift lever to the N position with the brake pedal depressed and shift the 4WD shift switch to 2WD.**
  - **in the 4LO position for manual transmission vehicles, stop the vehicle and shift the shift lever to the N position with the clutch pedal depressed and shift the 4WD shift switch to 2WD.**

- **If the warning light is still on after the above operation, have your vehicle checked by a NISSAN dealer as soon as possible.**

TRANSFER CASE SHIFTING PROCEDURES

The part time 4WD system provides 3 positions (2WD, 4H and 4LO), so you can select the desired drive mode according to the driving conditions.

Information Provided by:
DEALER E-PROCESS

2WD or 4WD shift procedure:

4WD Shift Switch Position	Wheels Driven	Indicator Light		Use Conditions	4WD Shift Procedure
		4WD shift	Transfer 4LO position		
2WD	Rear wheels			For driving on dry, paved roads (Economy drive)	Move the 4WD switch. 2WD <—> 4H 4WD shift indicator light will indicate transfer shift position engaged.
4H	4 wheels			For driving on rocky, sandy or snow-covered roads	
	Neutral		*1 May blink	Neutral disengages the automatic transmission mechanical parking lock, which will allow the vehicle to roll. Do not leave the transfer shift position in Neutral.*2	1. Stop the vehicle. 2. For automatic transmission vehicles: Shift the shift lever to the (N) position with the brake pedal depressed. For manual transmission vehicles: Shift the shift lever to the (N) position with the clutch depressed. 3. For automatic transmission vehicles: Depress and turn the 4WD shift switch to 4LO or 4H with the brake pedal depressed. For manual transmission vehicles: Depress and turn the 4WD switch to 4LO or 4H with the clutch pedal depressed. THE TRANSFER CASE DOES NOT ENGAGE BETWEEN 4H AND 4LO (OR 4LO TO 4H) UNLESS YOU HAVE FIRST STOPPED THE VEHICLE, DEPRESSED THE BRAKE PEDAL AND MOVED THE SHIFT LEVER TO NEUTRAL FOR AUTOMATIC TRANSMISSION VEHICLES. FOR MANUAL TRANSMISSION VEHICLES YOU MUST MOVE THE SHIFT LEVER TO NEUTRAL. *3
4LO	4 wheels		Illuminated	For use when maximum power and traction is required (for example: on steep grades or rocky, sandy, muddy roads)	

*1: Before moving the shift lever from neutral, wait until the 4LO indicator light stays on steady. This indicates that the 4WD shift procedure is completed and the transfer gear is correctly set in the 4LO position. If the vehicle is shifted into gear before the indicator is on steady, the transfer gear may grind, not engage correctly or stay in the neutral position.

- If the 4WD warning light illuminates, perform the following procedure to return the transfer case to correct operating condition.

1. Turn off the engine by turning the ignition switch ″OFF″.

Information Provided by:
DEALER E-PROCESS

2. Start the engine.

- Check that the 4WD warning light turns off. If the 4WD warning light illuminates, have the system checked by a NISSAN dealer.

3. Apply the parking brake, for automatic transmission vehicles, depress the brake pedal and move the shift lever to Neutral position. For manual transmission vehicles, move the shift lever to Neutral position.

4. With the brake pedal depressed on automatic transmission vehicles or with the clutch pedal depressed on manual transmission vehicles, move the 4WD shift switch to desired mode.

- Be sure to wait until the transfer gear change completes before shifting the shift lever from Neutral position.

*2: While changing in and out of 4LO, the ignition key must be ON and the vehicle's engine must be running for a shift to take place and for the indicator lights (4WD shift and 4LO position indicator) to be operable. Otherwise, the shift will not take place and no indicator lights will be on or flashing.

*3: Make sure the transfer 4LO position indicator light turns on when you shift the 4WD shift switch to 4LO. The OFF indicator light will also turn on when 4LO is selected. For additional information, refer to "Vehicle Dynamic Control (VDC) system" in this section.

Information Provided by:
DEALER E-PROCESS

The transfer case 4WD shift switch is used to select either 2WD or 4WD depending on the driving conditions. There are three types of drive modes available, 2WD, 4H and 4LO.

The 4WD shift switch electronically controls the transfer case operation. Rotate the switch to move between each mode, 2WD, 4H and 4LO.

To change into or out of 4LO, the vehicle MUST be stationary, shift the shift lever to Neutral (N), and for automatic transmission vehicles depress the brake pedal or for manual transmission vehicles depress the clutch pedal. The switch must be depressed and turned when changing into or out of 4LO.

⚠ WARNING

- **When parking, apply the parking brake before stopping the engine and make sure that the 4WD shift indicator light is on and the ATP warning light goes off. Otherwise, the vehicle could unexpectedly move even if the automatic transmission is in the P position.**
- **The 4LO indicator light must stop blinking and remain illuminated or turn off before shifting the transmission into gear. If the shift lever is shifted from the (N) position to any other gear when the 4LO indicator light is blinking, the vehicle may move unexpectedly.**

⚠ CAUTION

- **Never shift the 4WD shift switch between 4LO and 4H while driving.**
- **The 4H position provides greater traction. Avoid excessive speed, as it will cause increased fuel consumption and higher oil temperatures, and could damage drivetrain components. Speeds over 62 MPH (100 km/h) in 4H is not recommended**
- **The 4LO position provides maximum power and traction. Avoid raising vehicle speed excessively, as the maximum speed is approximately 31 MPH (50 km/h).**
- **When driving straight, shift the 4WD shift switch to the 2WD or 4H position. Do not move the 4WD shift switch when making a turn or reversing.**
- **Do not shift the 4WD shift switch (between 2WD and 4H) while driving on steep downhill grades. Use the engine brake and low automatic transmission gears (D1 or D2) or manual transmission (1st gear or 2nd gear) for engine braking.**
- **Do not operate the 4WD shift switch (between 2WD and 4H) with the rear wheels spinning.**
- **Do not drive on dry hard surface roads in the 4H or 4LO position. Driving on dry hard surfaces in 4H or 4LO may cause unnecessary noise and tire wear. NISSAN recommends driving in the 2WD position under these conditions.**
- **The 4WD transfer case may not be shifted between 4H and 4LO at low ambient temperatures and the transfer 4LO position indicator light may blink even when the 4WD shift switch is shifted. After driving for a while you can change the 4WD transfer case between 4H and 4LO.**

Information Provided by: DEALER E-PROCESS

When driving on rough roads,

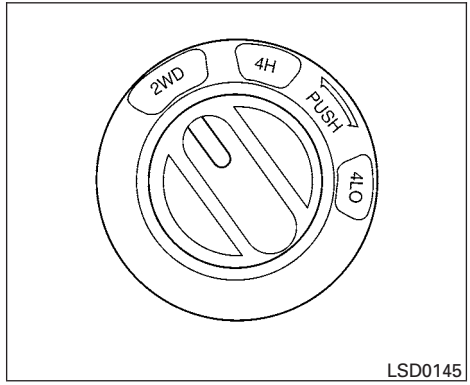
- Set the 4WD shift switch to 4H or 4LO.
- Drive carefully according to the road surface conditions.

When the vehicle is stuck,

- Set the 4WD shift switch to 4H or 4LO.
- Use the Electronic Locking Rear Differential (E-Lock) system (if so equipped). Turn the switch ON while the vehicle is stationary and apply the throttle to try to free the vehicle.
- If it is difficult to free the vehicle, rock the vehicle back and forth between reverse and drive gears.
- If the vehicle is stuck deep in mud, place stones or wooden blocks under the tires. Then try the recovery procedures above. Tire chains may be effective.

⚠ CAUTION

- **Do not spin the tires excessively. Tires will sink deep into the mud, making it difficult to free the vehicle.**
- **Avoid shifting gears with the engine running at high speeds as this may cause malfunction.**



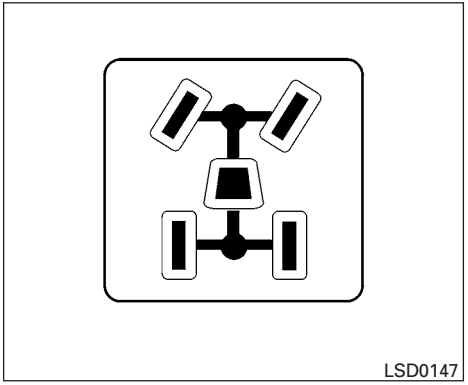
4WD shift switch operations

- Shift the 4WD shift switch to either the 2WD, 4H or 4LO position, depending on driving conditions.
- **If the 4WD shift switch is operated while making a turn, accelerating or decelerating or if the key switch is turned off while in the 4H or 4LO position, you may feel a jolt. This is not abnormal.**
- **When the vehicle is stopped after making a turn, you may feel a slight jolt after the shift lever is shifted to N or P. This occurs because the transfer clutch is released and not because of a malfunction.**

⚠ CAUTION

- **When driving straight, shift the 4WD shift switch to the 2WD or 4H position. Do not move the 4WD shift switch when making a turn or reversing.**
- **Do not shift the 4WD shift switch while driving on steep downhill grades. Use the engine brake and low automatic transmission gears (D1 or D2) or manual transmission (1st gear or 2nd gear) for engine braking.**
- **Do not operate the 4WD shift switch with the rear wheels spinning.**
- **Before placing the 4WD shift switch in the 4H position from 2WD, ensure the vehicle speed is less than 62 MPH (100 km/h). Failure to do so can damage the 4WD system.**
- **Never shift the 4WD shift switch between 4LO and 4H while driving.**

Information Provided by: DEALER E-PROCESS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4WD shift indicator light

The 4WD shift indicator light is located in the odometer display.

The light should turn off within 1 second after turning the ignition switch to the ON position.

While the engine is running, the 4WD shift indicator light will illuminate the position selected by the 4WD shift switch.

- **The 4WD shift indicator light may blink while shifting from one drive mode to the other. When the shifting is completed, the 4WD shift indicator light will come on.**
- If the 4WD warning light comes on, the 4WD indicator light goes out.

⚠CAUTION

If the 4WD shift indicator light indication changes to 2WD when the 4WD shift switch is shifted to the 4H position at low ambient temperatures, the 2WD mode may be being engaged due to malfunctioning drive system. If the indicator does not return to normal and the 4WD warning light comes on, have the system checked by the nearest NISSAN dealer.

4WD warning light

Warning light	Comes on or blinks when:
4WD Comes on	There is a malfunction in the 4–wheel drive system
4WD Blinks slowly	The difference in wheel rotation is large

The 4WD warning light is located in the meter.

The 4WD warning light comes on when the ignition switch is turned to ON. It turns off soon after the engine is started.

If any malfunction occurs in the 4WD system when the ignition switch is ON, the warning light will either remain illuminated or blink.

If the 4WD warning light comes on, the 4WD shift indicator light goes out.

A large difference between the diameters of front and rear wheels will make the warning light blink slowly (about once per 2 seconds). Change the 4WD shift switch into 2WD and do not drive fast.

⚠CAUTION

- **If the warning light comes on or blinks slowly during operation, have your vehicle checked by a NISSAN dealer as soon as possible.**
- **Shifting between 4H and 4LO is not recommended when the 4WD warning light turns on.**

Information Provided by: DEALER E-PROCESS

- **When the warning light comes on, the 2WD mode may be engaged even if the 4WD shift switch is in 4H. Be especially careful when driving. If corresponding parts are malfunctioning, the 4WD mode will not be engaged even if the 4WD shift switch is shifted.**
- **Do not drive the vehicle in the 4H or 4LO position on dry hard surface roads. Driving on dry, hard surfaces in 4H or 4LO may cause unnecessary noise, tire wear and increased fuel consumption.**

  If the 4WD warning light turns on when you are driving on dry hard surface roads:

  – **in the 4H position, shift the 4WD shift switch to 2WD.**

  – **in the 4LO position for automatic transmission vehicles, stop the vehicle and shift the shift lever to the N position with the brake pedal depressed and shift the 4WD shift switch to 2WD.**

  – **in the 4LO position for manual transmission vehicles, stop the vehicle and shift the shift lever to the N position with the clutch pedal depressed and shift the 4WD shift switch to 2WD.**
- **If the warning light is still on after the above operation, have your vehicle checked by a NISSAN dealer as soon as possible.**
- **The transfer case may be damaged if you continue driving with the warning light blinking.**

ELECTRONIC LOCKING REAR DIFFERENTIAL (E-Lock) SYSTEM (if so equipped)

The E-Lock system can provide additional traction and should only be used when a vehicle has become or is becoming stuck. This system operates by electronically “locking” the two rear drive wheels together, allowing them to turn at the same speed. The system is used when it is not possible to free a stuck vehicle even when using the 4LO position (4-wheel drive vehicles).

When added traction is required, activate the E-Lock system by pushing the switch ON. For additional information, refer to “Electronic locking rear differential (E-Lock) system switch” in the “Instruments and Controls” section of this manual. Once the system fully engages, the indicator light in the instrument panel will remain ON. When the system is activated, both rear wheels will engage, providing added traction.

The rear wheels may momentarily slip or move to engage the system, and the system will only engage up to approximately 4 MPH (7 km/h). Once the vehicle is free, the system should be turned OFF and driving resumed.

The Anti-Lock Brake (ABS) system is disabled and the ABS light illuminates when the E-Lock system is ON. Also, the Vehicle Dynamic Control (VDC) system is disabled and the VDC light illuminates when the E-Lock system is ON.

Information Provided by:
DEALER E-PROCESS

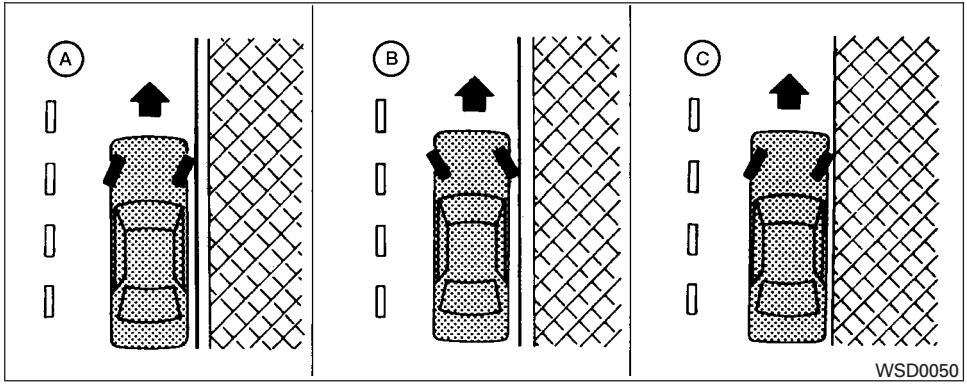
⚠ WARNING

- **Never leave the E-Lock system ON when driving on paved or hard-surfaced roads. Turning the vehicle may result in the rear wheels slipping and result in an accident and personal injury. After using the E-Lock system to free the vehicle, turn the system OFF.**
- **Use the E-Lock system only when freeing a stuck vehicle. Try the 4LO position before using the E-Lock system. Never use the E-Lock system on a slippery road surface such as snow or ice surface. Using the E-Lock system when driving in these road conditions may cause unexpected movement of the vehicle during engine braking, accelerating or turning, which may result in an accident and serious personal injury.**

⚠ CAUTION

- **After using the E-Lock system, turn the switch OFF to prevent possible damage to driveline components from extended use.**
- **Do not drive the vehicle at speeds faster than 12 MPH (20 km/h) when the system is engaged. Doing so could damage drivetrain components.**
- **Do not turn on the E-lock system while the tires are spinning. Doing so could damage drivetrain components.**

Information Provided by:
DEALER E-PROCESS



⚠WARNING

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Safe parking procedures require that both the parking brake be set and the transmission placed into P (Park) for automatic transmission models or in an appropriate gear for manual transmission models. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident. Make sure the shift lever has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.**
- **Never leave the engine running while the vehicle is unattended.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**

1. Firmly apply the parking brake.
2. **Manual transmission models:**

   Place the shift lever in the R (Reverse) position. When parking on an uphill grade, place the shift lever in 1st gear.

   Automatic transmission models:

   Move the shift lever to the P (Park) position.
3. To help prevent the vehicle from rolling into traffic when parked on an incline, it is a good practice to turn the wheels as illustrated.

- HEADED DOWNHILL WITH CURB: Ⓐ

  Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
- HEADED UPHILL WITH CURB: Ⓑ

  Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.
- HEADED UPHILL OR DOWNHILL, NO CURB: Ⓒ

  Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

4. Turn the ignition switch to the LOCK position and remove the key.

Information Provided by:
DEALER E-PROCESS

POWER STEERING

The power assisted steering uses a hydraulic pump, driven by the engine, to assist steering.

If the engine stops or the drive belt breaks, you will still have control of the vehicle. However, much greater steering effort is needed, especially in sharp turns and at low speeds.

⚠WARNING

If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.

BRAKE SYSTEM

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

BRAKE PRECAUTIONS

Vacuum assisted brakes

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and stopping distance will be longer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will overheat the brakes, wear out the brake pads faster, and reduce gas mileage.

To help reduce brake wear and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

⚠WARNING

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry the brakes, drive the vehicle at a safe speed while lightly pressing the brake pedal to heat up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

Parking brake break-in

Break-in the parking brake shoes whenever the effect of the parking brake is weakened or whenever the parking brake shoes and/or drum/rotors are replaced, in order to assure the best brake performance.

Information Provided by: DEALER E-PROCESS

This procedure is described in the vehicle service manual and can be performed by a NISSAN dealer.

ANTI-LOCK BRAKING SYSTEM (ABS)

⚠ WARNING

- **The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.**
- **Tire type and condition may also affect braking effectiveness.**
  - **When replacing tires, install the specified size of tires on all four wheels.**
  - **When installing a spare tire, make sure that it is the proper size and type as specified on the Tire and Loading Information label. For additional information, refer to "Tire and Loading Information label" in the "Technical and consumer information" section of this manual.**
  - **For additional information, refer to "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.**

The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

⚠ WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked by a NISSAN dealer.

Normal operation

The ABS operates at speeds above 3 - 6 MPH (5 - 10 km/h). The speed varies according to road conditions.

Information Provided by: DEALER E-PROCESS

ACTIVE BRAKE LIMITED SLIP (ABLS) SYSTEM

When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

- ABLS system uses automatic braking to transfer power from a slipping drive wheel to the wheel on the same axle with more traction. The ABLS system applies braking to the slipping wheel, which helps redirect power to the other wheel.
- On 4WD models the ABLS system operates in both 4H and 4LO modes. If 4WD mode is engaged, the ABLS system operates for both drive axles. On 2WD vehicles, the ABLS system operates on the drive axle only.
- The ABLS system is always ON. In some conditions, the system may automatically turn the ABLS system off. If the system is automatically turned off, normal brake function will continue. ABLS will function even when the VDC system is turned OFF.
- The ABLS does not operate if both wheels on a drive axle are slipping.

⚠ WARNING

- **The ABLS system helps provide increased traction, but will not prevent accidents due to abrupt steering operation or by careless driving or dangerous driving practices. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces. Always drive carefully.**
- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN approved for your vehicle or are extremely deteriorated, the ABLS system may not operate properly. This could adversely affect vehicle handling performance, and the slip indicator light may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the ABLS system may not operate properly and the slip indicator light may illuminate.**

Information Provided by: DEALER E-PROCESS

VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

- **If wheels or tires other than the NISSAN recommended ones are used, the ABLS system may not operate properly and the slip indicator light may illuminate.**

The Vehicle Dynamic Control (VDC) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the VDC System helps to perform the following functions:

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a non slipping drive wheel on the same axle.
- Controls brake pressure and engine output to reduce drive wheel slip based on vehicle speed (traction control function).
- If the 4WD transfer case is shifted into 4LO the OFF indicator light will come on and the VDC system will be turned off. For additional information, refer to “Using four wheel drive (4WD)” in this section.
- Controls brake pressure at individual wheels and engine output to help the driver maintain control of the vehicle in the following conditions:
  - understeer (vehicle tends to not follow the steered path despite increased steering input)
  - oversteer (vehicle tends to spin due to certain road or driving conditions)

The VDC system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC system operates, the indicator in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC system is working properly.
- Adjust your speed and driving to the road conditions.

For additional information, refer to “Slip indicator light for models with VDC” and ”Vehicle Dynamic Control (VDC) OFF indicator light” in the ”Instruments and controls” section of this manual.

If a malfunction occurs in the system, the indicator light will come on in the instrument panel. The VDC system automatically turns off when these indicator lights are off.

The VDC OFF switch is used to turn off the VDC system. The OFF indicator illuminates to indicate the VDC system is off.

Information Provided by: DEALER E-PROCESS

When the VDC switch is used to turn off the system, the VDC system still operates to prevent one drive wheel from slipping by transferring power to a non slipping drive wheel. The indicator flashes if this occurs. All other VDC functions are off and the indicator will not flash.

The VDC system is automatically reset to on when the ignition switch is placed in the off position then back to the on position.

The computer has a built in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a clunk noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

⚠WARNING

- **The VDC system is designed to help the driver maintain stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**
- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the indicator may flash or the indicator light may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC system may not operate properly and the indicator light may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, the indicator light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the indicator may flash or the indicator light may illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the indicator may flash or the indicator light may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the NISSAN recommended ones are used, the VDC system may not operate properly and the indicator may flash or the indicator light may illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**

Information Provided by:
DEALER E-PROCESS

HILL DESCENT CONTROL SYSTEM (if so equipped)

⚠ WARNING

- **Never rely solely on the hill descent control system to control vehicle speed when driving on steep downhill grades. Always drive carefully and attentively when using the hill descent control system and decelerate the vehicle speed by depressing the brake pedal if necessary. Be especially careful when driving on frozen, muddy or extremely steep downhill roads. Failure to control vehicle speed may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill descent control may not control the vehicle speed on a hill under all load or road conditions. Always be prepared to depress the brake pedal to control vehicle speed. Failure to do so may result in a collision or serious personal injury.**

The hill descent control system helps maintain vehicle speed when driving under 15-21 MPH (25-35 km/h) on steeper downhill grades. Hill descent control is useful when engine braking alone in 4H or 4L cannot control vehicle speed. Hill descent control applies the vehicle brakes to control vehicle speed allowing the driver to concentrate on steering while reducing the burden of brake and accelerator operation.

- When additional braking is required on steep downhill roads, activate the hill descent control system by pushing the switch ON. For additional information, refer to “Hill descent control switch” in the “Instruments and controls” section of this manual.
- Once the system is activated, the indicator light will remain on in the instrument panel. For additional information, refer to “Hill descent control system on indicator light” in the “Instruments and controls” section of this manual.

If the accelerator or brake pedal is depressed while the hill descent control system is on, the system will stop operating temporarily. As soon as the accelerator or brake pedal is released, the hill descent control system begins to function again if the hill descent control operating conditions are fulfilled.

For the best results, when descending steep downhill grades, the hill descent control switch should be ON and the shift lever in 2 (Second gear) or 1 (Low gear) for engine braking.

HILL START ASSIST SYSTEM (if so equipped)

⚠ WARNING

- **Never rely solely on the hill start assist system to prevent the vehicle from moving backward on a hill. Always drive carefully and attentively. Depress the brake pedal when the vehicle is stopped on a steep hill. Be especially careful when stopped on a hill on frozen or muddy roads. Failure to prevent the vehicle from rolling backwards may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill start assist system is not designed to hold the vehicle at a standstill on a hill. Depress the brake pedal when the vehicle is stopped on a steep hill. Failure to do so may cause the vehicle to roll backwards and may result in a collision or serious personal injury.**
- **The hill start assist may not prevent the vehicle from rolling backwards on a hill under all load or road conditions. Always be prepared to depress the brake pedal to prevent the vehicle from rolling backwards. Failure to do so may result in a collision or serious personal injury.**

Information Provided by: DEALER E-PROCESS

When the vehicle is stopped on a hill, the hill start assist system automatically keeps the brakes applied. This helps prevents the vehicle from rolling backward in the time it takes the driver to release the brake pedal and apply the accelerator.

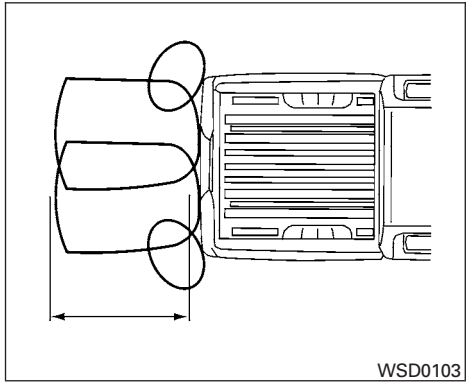
Hill start assist will operate automatically under the following conditions:

- The shift lever is shifted to a forward or reverse gear.
- The vehicle is stopped completely on a hill by applying the brake.

The maximum holding time is 2 seconds. After 2 seconds the vehicle will begin to roll back and hill start assist will stop operating completely.

Hill start assist will not operate when the shift lever is shifted into N (Neutral) or P (Park) or on a flat and level road.

REAR SONAR SYSTEM (RSS) (if so equipped)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⚠ WARNING

- **Always turn and look back before backing up. The RSS is not a substitute for proper backing procedures.**
- **Read and understand the limitations of the rear sonar system as contained in this section. Inclement weather may affect the function of the RSS; this may include reduced performance or a false activation.**
- **This system is not designed to prevent contact with small or moving objects.**
- **The system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. The system will not detect small objects below the bumper, and may not detect objects close to the bumper or on the ground.**
- **If your vehicle sustains damage to the rear bumper fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.**

The Rear Sonar System (RSS) sounds a tone to warn the driver of obstacles near the rear bumper when the shift lever is in R (Reverse). The system may not detect objects at speeds above 3 mph (5 km/h) and may not detect certain angular or moving objects.

The RSS detects obstacles up to 5.9 ft (1.8 m) from the rear bumper with a decreased coverage area at the outer corners of the bumper, (refer to the illustration for approximate zone coverage areas). As you move closer to the obstacle, the rate of the tone increases. When the obstacle is less than 10 in (25.0 cm) away, the tone will sound continuously. If the RSS detects a stationary or receding object further than 10 in (25.0 cm) from the side of the vehicle, the tone

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will sound for only 3 seconds. Once the system detects an object approaching, the tone will sound again.

The RSS automatically turns on when the shift lever is placed in R (Reverse) and the ignition is ON. The RSS OFF switch on the instrument panel allows the driver to turn the RSS on and off. To turn the RSS off, the ignition must be ON, and the shift lever in R (Reverse). An indicator light on the switch will illuminate when the system is turned off. If the indicator light illuminates when the RSS is not turned off, it may indicate a malfunction in the RSS.

Keep the RSS sensors (located on the rear bumper fascia) free from snow, ice and large accumulations of dirt (do not clean the sensors with sharp objects). If the sensors are covered, it will affect the accuracy of the RSS.

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole or use the remote keyless entry key fob (if so equipped).

ANTIFREEZE

In the winter when it is anticipated that the temperature will drop below 32°F (0°C), check the antifreeze to assure proper winter protection. For additional information, refer to “Engine cooling system” in the “Maintenance and do-it-yourself” section of this manual.

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For additional information, refer to “Battery” in the “Maintenance and do-it-yourself” section of this manual.

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without antifreeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For additional information, refer to “Changing engine coolant” in the “Maintenance and do-it-yourself” section of this manual.

TIRE EQUIPMENT

1. SUMMER tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, NISSAN recommends the use of MUD & SNOW or ALL SEASON TIRES on all 4 wheels. Please consult a NISSAN dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, studded tires may be used. However, some jurisdictions prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

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3. Tire chains may be used. For additional information, refer to “Tire chains” in the “Maintenance and do-it-yourself” section of this manual.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.
- Extra washer fluid to refill the windshield-washer fluid reservoir.

DRIVING ON SNOW OR ICE

⚠WARNING

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or “grip” under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.**
- **Do not use the cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

ENGINE BLOCK HEATER (if so equipped)

Engine block heaters are used to assist with cold temperature starting.

The engine block heater should be used when the outside temperature is 20°F (-7°C) or lower.

⚠WARNING

- **Do not use your engine block heater with an ungrounded electrical system or a 2-pronged adapter. You can be seriously injured by an electrical shock if you use an ungrounded connection.**
- **Disconnect and properly store the engine block heater cord before starting the engine. Damage to the cord could result in an electrical shock and can cause serious injury.**
- **Use a heavy-duty 3-wire, 3-pronged extension cord rated for at least 10 A. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-VAC outlet. Failure to use the proper extension cord or a grounded outlet can result in a fire or electrical shock and cause serious personal injury.**

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To use the engine block heater:

1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3-wire, 3-pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater must be plugged in for at least 2–4 hours, depending on outside temperatures, to properly warm the engine coolant. Use an appropriate timer to turn the engine block heater on.
6. Before starting the engine, unplug and properly store the cord to keep it away from moving parts.

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6 In case of emergency

Hazard warning flasher switch 6-2
First aid kit (if so equipped) 6-2
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Towing your vehicle 6-14
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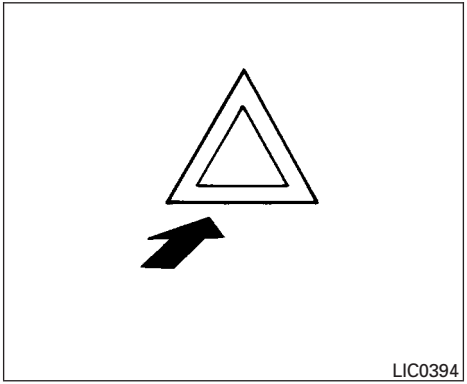
HAZARD WARNING FLASHER SWITCH


LIC0394

Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights flash.

⚠ WARNING

- **If stopping for an emergency, be sure to move the vehicle well off the road.**
- **Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signals do not work when the hazard warning flasher lights are on.**

The flashers will operate with the ignition switch placed in any position.

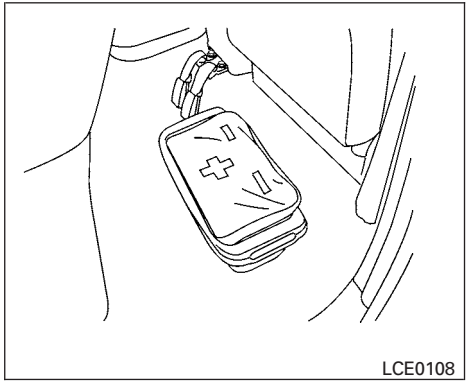
Some jurisdictions may prohibit the use of the hazard warning flasher switch while driving.

FIRST AID KIT (if so equipped)

The first aid kit is located in the under-seat storage bins.

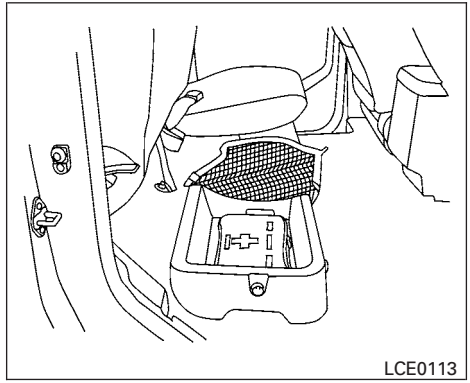
To access the first aid kit:

Information Provided by: DEALER E-PROCESS



King Cab model

For King Cab model, lift up the rear jump seat and remove net to remove the first aid kit. For additional information, refer to “Jump Seats (if so equipped)” in the “Safety — Seats, seat belts and supplemental restraint system” section in the manual.



Crew Cab model

For Crew Cab model, lift up the rear bench seat and remove the net to remove the first aid kit. For additional information, refer to “Folding the rear bench seat up” in the “Safety — Seats, seat belts and supplemental restraint system” section in the manual.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

This vehicle is equipped with TPMS. It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit, and the CHECK TIRE PRES (pressure) warning message is displayed in the odometer, 1 or more of your tires is significantly under-inflated. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 16 mph (25 km/h). For additional information, refer to “Warning/Indicator Lights and Audible Reminders” in the “Instruments and controls” section, and “Tire Pressure Monitoring System (TPMS)” in the “Starting and driving” section of this manual.

⚠WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**

Information Provided by: DEALER E-PROCESS

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with underinflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all 4 tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If you have a flat tire, replace it with a spare tire as soon as possible.**
- **When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

CHANGING A FLAT TIRE

If you have a flat tire, follow the instructions below:

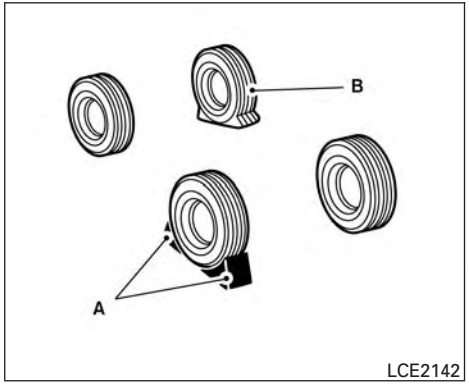
Stopping the vehicle

1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the manual transmission into R (Reverse), or the automatic transmission into P (Park).
4. Turn off the engine.
5. Raise the hood to warn other traffic and to signal professional road assistance personnel that you need assistance.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

⚠ WARNING

- **Make sure the parking brake is securely applied and the manual transmission is shifted into R (Reverse), or the automatic transmission into P (Park).**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**

Information Provided by: DEALER E-PROCESS



LCE2142

A. Blocks

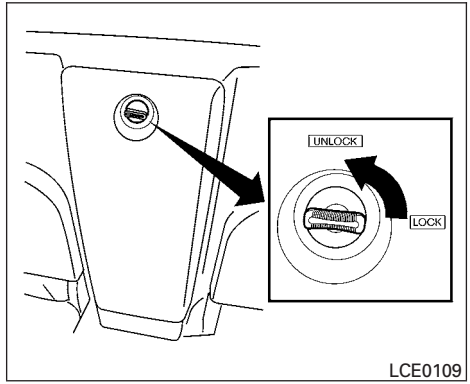
B. Flat tire

Blocking wheels

Place suitable blocks at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from moving when it is jacked up.

⚠WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.

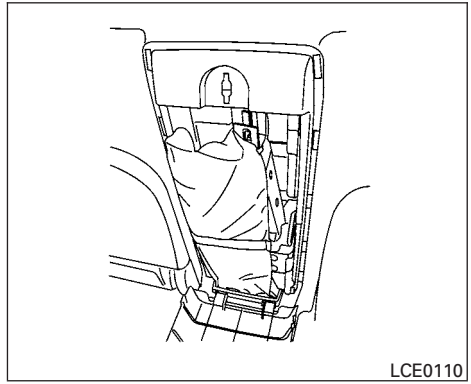


LCE0109

Getting the spare tire and tools (King Cab models)

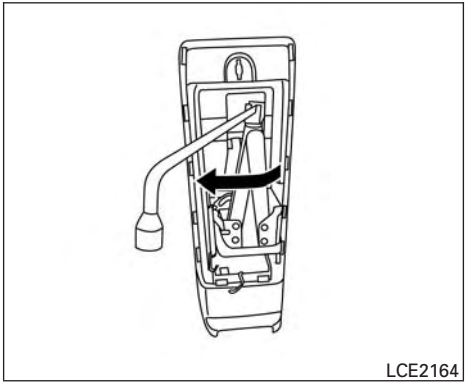
The tool storage compartment is located between the two rear jump seats.

1. Turn the knob from the lock to the unlock position and remove the lid from the tool storage compartment.
2. Release the strap to remove the tool bag.


LCE0110

3. Collapse the jack to remove it from the storage location by inserting the wheel-nut wrench into the jack screw at the top of the jack as shown. Turn the wheel-nut wrench counterclockwise as shown until the jack screw becomes loose. Then loosen the jack with your fingers to free.
4. Remove the jack.
5. To reinstall the jack and tools, reverse steps 1 to 4.

Information Provided by:
DEALER E-PROCESS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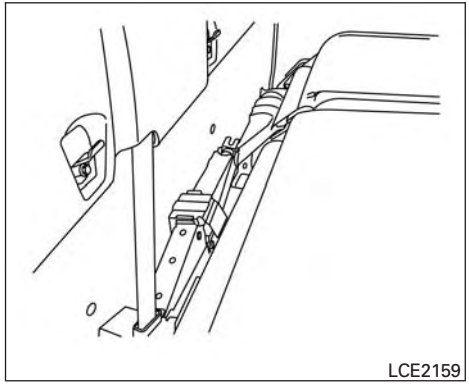
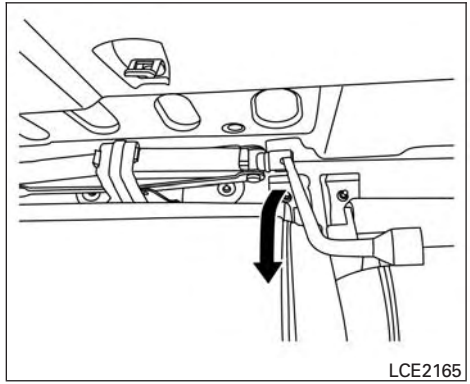

LCE2159

Getting the spare tire and tools (Crew Cab models)

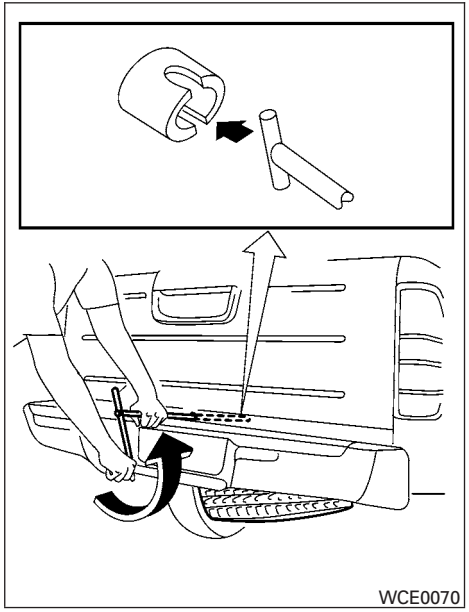
The tools and tool bag are located behind the rear bench seat.

1. Remove the head restraints/headrests and fold the rear bench seat down. For additional information, refer to “Folding the rear bench seat down ” in the “Safety–Seats, seat belts and supplemental restraint system” section.
2. Remove the tool bag and locate the wheel-nut wrench.


LCE2165

3. Collapse the jack to remove it from the storage location by inserting the wheel-nut wrench into the jack screw as shown and turning the wheel-nut wrench towards you until the jack becomes loose. Then loosen the jack screw with your fingers until it is free.
4. Remove the jack from behind the seat.
5. To reinstall the jack and tools, reverse steps 1 to 4.

Information Provided by:
DEALER E-PROCESS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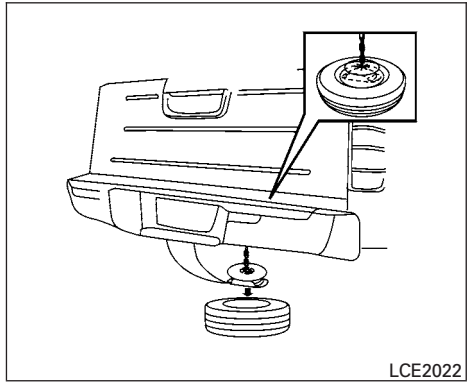
Getting the spare tire and tools (All models)

1. Seat the T-shaped end of the jack rod into the T-shaped opening of the spare tire winch. Apply pressure to keep the jack rod engaged in the spare tire winch and turn the jack rod counterclockwise to lower the spare tire.
2. Once the spare tire is completely lowered, reach under the vehicle, remove the retainer chain, and carefully slide the tire from under the rear of the vehicle.


LCE2022

3. To reinstall the wheel, insert the tire chain through the wheel. Be sure the rubber spacer is centered on the wheel before lifting. Use the assembled jack rod and slowly rotate the winch clockwise to raise the wheel to the vehicle.

NOTE:

Inspect the spacer every six years and replace as necessary. Contact your NISSAN dealer for replacement parts if necessary.

Information Provided by:
DEALER E-PROCESS

⚠CAUTION

- **Be sure to center the spare tire suspending plate on the wheel and then lift the spare tire.**
- **Failure to use the spacer may allow the chain to get stuck on the wheel nut holes.**

Jacking up vehicle and removing the damaged tire

⚠WARNING

- **Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed for lifting only your vehicle during a tire change.**
- **Use the correct jack-up points. Never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run the engine while vehicle is on the jack. It may cause the vehicle to move. This is especially true for vehicles with limited slip differentials.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**
- **Never run the engine with a wheel(s) off the ground. It may cause the vehicle to move.**

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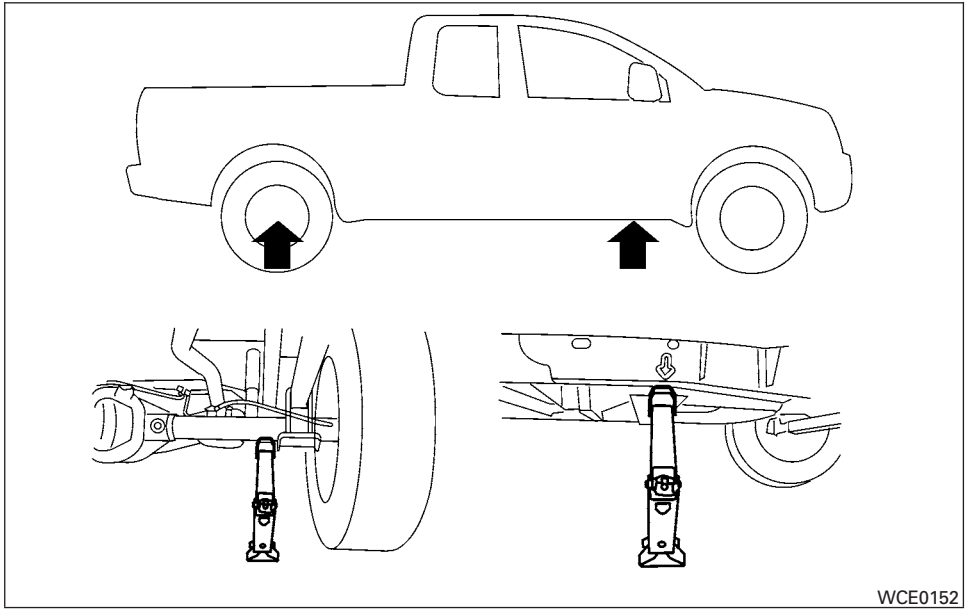
WCE0152

Always refer to the illustration for the correct placement and jack-up points for your specific vehicle model and jack type.

Carefully read the caution label attached to the jack body and the following instructions.

1. Loosen each wheel nut 1 or 2 turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**
2. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the vehicle at the jack-up point. Align the jack head between the 2 notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

   The jack should be used on firm and level ground.

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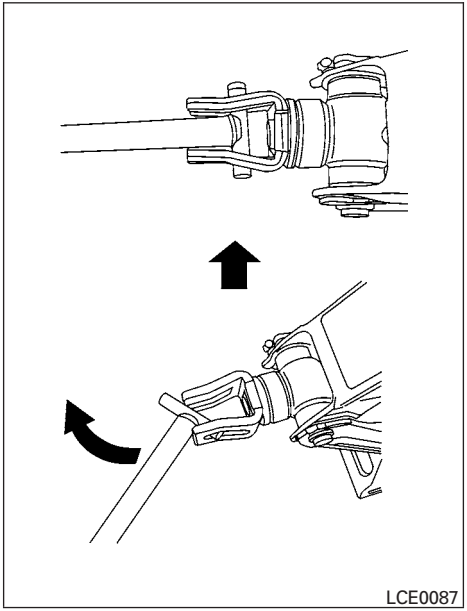
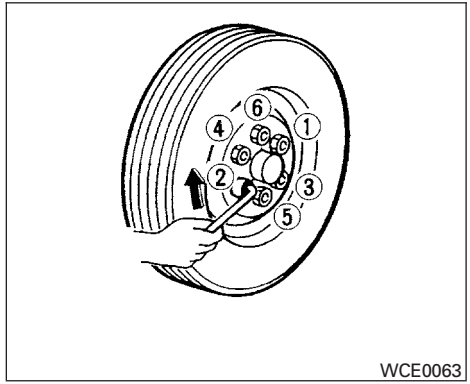

LCE0087

3. Install the assembled jack rod into the jack as shown.
4. To lift the vehicle, securely hold the jack lever and rod. Carefully raise the vehicle until the tire clears the ground.
5. Remove the wheel nuts and then remove the tire.



WCE0063

Installing the spare tire

The spare tire is designed for emergency use. For additional information, refer to "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the spare tire on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly as illustrated until they are tight (①,②,③,④,⑤,⑥).

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4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence illustrated. Lower the vehicle completely (①,②,③,④,⑤,⑥).

⚠WARNING

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**
- **Retighten the wheel nuts when the vehicle has been driven for 620 miles (1,000 km) (also in cases of a flat tire, etc.).**

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:

98 ft-lb (133 N·m)

The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to specifications at each lubrication interval.

Adjust tire pressure to the COLD pressure.

COLD pressure: After vehicle has been parked for 3 hours or more or driven less than 1 mile (1.6 km).

COLD tire pressures are shown on the Tire and Loading Information label located in the driver's door opening.

5. Securely store the jacking equipment in the vehicle and the flat tire under the vehicle. For additional information about storing the flat tire, refer to "Getting the spare tire and tools" in this section.

⚠WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **The spare tire is designed for emergency use. For additional information, refer to "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.**

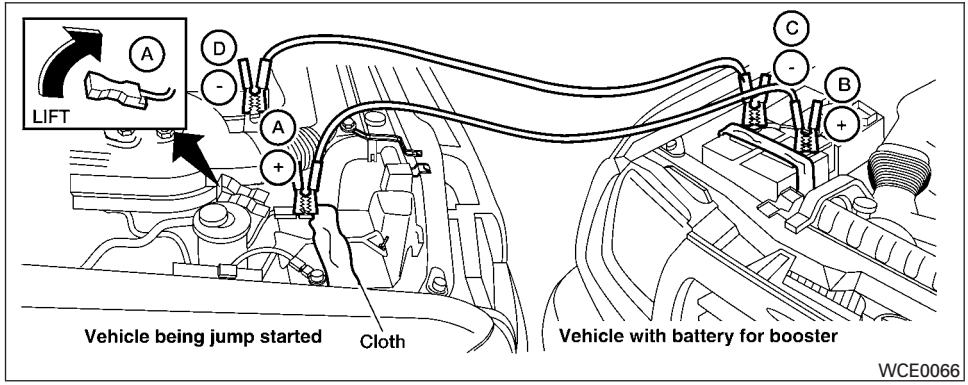
To start your engine with a booster battery, the instructions and precautions below must be followed.

⚠WARNING

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulfuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**

Information Provided by: DEALER E-PROCESS

- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.**



⚠WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle, position the 2 vehicles to bring their batteries near each other.

   Do not allow the 2 vehicles to touch.

2. Apply the parking brake. Move the shift lever to N (Neutral) (manual transmission) or to P (Park) (automatic transmission). Switch off all unnecessary electrical systems (lights, heater, air conditioner, etc.).
3. Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth to reduce explosion hazard.
4. Connect jumper cables in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ).

Information Provided by: DEALER E-PROCESS

⚠ CAUTION

- **Always connect positive (+) to positive (+) and negative (−) to body ground (for example, strut mounting bolt, engine lift bracket, etc.) — not to the battery.**
- **Make sure the jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.**

5. Start the engine of the booster vehicle and let it run for a few minutes.
6. Keep the engine speed of the booster vehicle at about 2,000 rpm, and start the engine of the vehicle being jump started.

⚠ CAUTION

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, turn the key off and wait 3 to 4 seconds before trying again.

7. After starting the engine, carefully disconnect the negative cable and then the positive cable.
8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

⚠ CAUTION

- **Do not push start this vehicle. The 3-way catalyst may be damaged.**
- **Automatic transmission models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**
- **For manual transmission models, never try to start the vehicle by towing it. When the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.**

⚠ WARNING

- **Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.**
- **To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.**
- **Do not open the hood if steam is coming out.**

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc. take the following steps.

1. Move the vehicle safely off the road, apply the parking brake and move the shift lever to N (Neutral) (manual transmission) or to P (Park) (automatic transmission).

   Do not stop the engine.

2. Turn off the air conditioner. Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed.

Information Provided by: DEALER E-PROCESS

3. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. If steam or coolant is escaping, turn off the engine. Do not open the hood further until no steam or coolant can be seen.
4. Open the engine hood.

⚠ WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

5. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking, the water pump belt is missing or loose, or the cooling fan does not run, stop the engine.

⚠ WARNING

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time.

6. After the engine cools down, check the coolant level in the engine coolant reservoir tank with the engine running. Add coolant to the engine coolant reservoir tank if necessary. Have your vehicle repaired at a NISSAN dealer.

When towing your vehicle, all jurisdictional and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from a NISSAN dealer. Local service operators are generally familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends having a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions:

⚠ WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

⚠ CAUTION

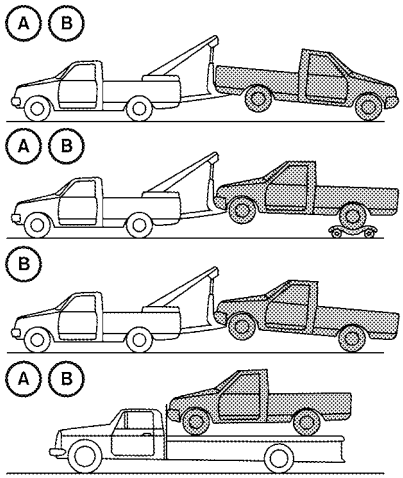
- **When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any of these conditions apply, dollies or a flatbed tow truck must be used.**
- **Always attach safety chains before towing.**

Information Provided by: DEALER E-PROCESS

For additional information about towing your vehicle behind a recreational vehicle (RV), refer to “Flat towing” in the “Technical and Consumer Information” section of this manual.

TOWING RECOMMENDED BY NISSAN

Two-wheel drive models



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Ⓐ Automatic Transmissions (A/T)
Ⓑ Manual Transmissions (M/T)

NISSAN recommends that your vehicle be towed with the driving (rear) wheels off the ground or place the vehicle on a flatbed truck as illustrated.

⚠ CAUTION

- **Never tow automatic transmission models with the rear wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the front wheels raised always use towing dollies under the rear wheels.**
- **When towing automatic or manual transmission models with the front wheels on the ground or on towing dollies:**
  - **Place the ignition switch in the OFF position, and secure the steering wheel in a straight-ahead position with a rope or similar device. Never secure the steering wheel by placing the ignition switch in the LOCK position. This may damage the steering lock mechanism (for models with a steering lock mechanism).**
- **If you have to tow manual transmission models with the rear wheels on the ground (if you do not use towing dollies) or four wheels on the ground:**
  - **Always release the parking brake.**

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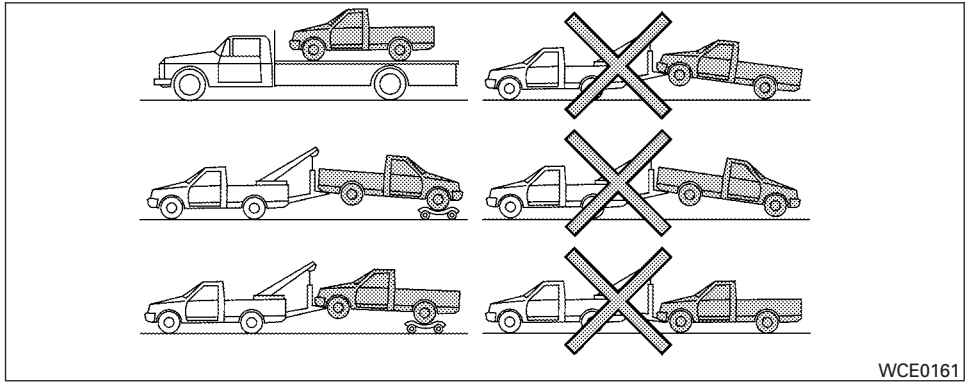
- **Move the transmission shift lever to the N (Neutral) position**
- **Observe the following restricted towing speeds and distances for manual transmission models only:**

  Speed: Below 60 MPH (97 km/h)

  Distance: Less than 500 miles (805 km)

When towing long distances or speeds in excess of 60 mph, remove the propeller shaft before towing to prevent damage to the transmission. See your NISSAN dealer for more information.



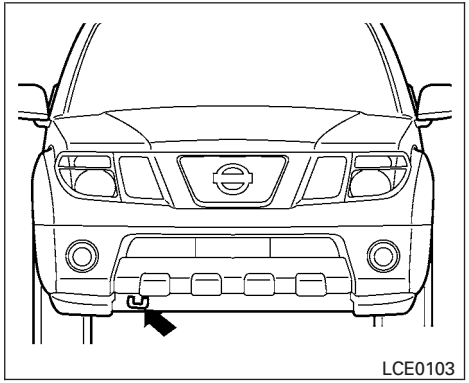
Four-wheel drive models

NISSAN recommends that towing dollies be used when towing your vehicle or place the vehicle on a flatbed truck as illustrated.

⚠ CAUTION

Never tow 4WD models with any of the wheels on the ground as this may cause serious and expensive damage to the transfer case and transmission.

Information Provided by: DEALER E-PROCESS



Recovery hooks (if so equipped)

VEHICLE RECOVERY (freeing a stuck vehicle)

Pulling a stuck vehicle

⚠WARNING

To avoid vehicle damage, serious personal injury or death when recovering a stuck vehicle:

- **Contact a professional towing service to recover the vehicle if you have any questions regarding the recovery procedure.**
- **Attach recovery devices only to main structural members of the vehicle or the recovery hooks.**
- **Do not use the vehicle tie-downs to tow or free a stuck vehicle.**
- **Only use devices specifically designed for vehicle recovery and follow the manufacturer's instructions.**
- **Always pull the recovery device straight out from the front of the vehicle. Never pull at an angle.**
- **Route recovery devices so they do not touch any part of the vehicle except the attachment point.**

If your vehicle is stuck in sand, snow, mud, etc., use a tow strap or other device designed specifically for vehicle recovery. Always follow the manufacturer's instructions for the recovery device.

Do not use the tie-down hooks for towing or vehicle recovery.

Rocking a stuck vehicle

⚠WARNING

- **Stand clear of a stuck vehicle.**
- **Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.**

If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control system.
2. Make sure the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.
   - Shift back and forth between R (reverse) and D (drive) (automatic transmission models) or 1st (low) and R (reverse) (manual transmission models).
   - Apply the accelerator as little as possible to maintain the rocking motion.

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- Release the accelerator pedal before shifting between R and D (automatic transmission models) or 1st and R (manual transmission models).
- Do not spin the tires above 34 mph (55 km/h).

5. If the vehicle can not be freed after a few tries, contact a professional towing service to remove the vehicle.

Information Provided by:
DEALER E-PROCESS

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Information Provided by:
DEALER E-PROCESS

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surfaces, please wash your vehicle as soon as you can:

- after a rainfall to prevent possible damage from acid rain
- after driving on coastal roads
- when contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface
- when dust or mud builds up on the surface

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

⚠CAUTION

- **Do not use car washes that use acid in the detergent. Some car washes, especially brushless ones, use some acid for cleaning. The acid may react with some plastic vehicle components, causing them to crack. This could affect their appearance, and also could cause them not to function properly. Always check with your car wash to confirm that acid is not used.**
- **Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**

Rinse the vehicle thoroughly with plenty of clean water.

Inside edges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be cleaned regularly. Take care that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

A damp chamois can be used to dry the vehicle to avoid water spots.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before re-applying wax.

A NISSAN dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

Information Provided by: DEALER E-PROCESS

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the surface of the paint to avoid lasting damage or staining. Special cleaning products are available at a NISSAN dealer or any automotive accessory store.

UNDERBODY

In areas where road salt is used in winter, it is necessary to clean the underbody regularly in order to prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

⚠ CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

ALUMINUM ALLOY WHEELS (if so equipped)

Wash the wheels regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. If not removed, road salt can discolor the wheels.

⚠ CAUTION

Follow the directions below to avoid staining or discoloring the wheels:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

TIRE DRESSINGS

NISSAN does not recommend the use of tire dressings. Tire manufacturers apply a coating to the tires to help reduce discoloration of the rubber. If a tire dressing is applied to the tires, it may react with the coating and form a compound. This compound may come off the tire while driving and stain the vehicle paint.

If you choose to use a tire dressing, take the following precautions:

- Use a water-based tire dressing. The coating on the tire dissolves more easily than with an oil-based tire dressing.
- Apply a light coat of tire dressing to help prevent it from entering the tire tread/grooves (where it would be difficult to remove).
- Wipe off excess tire dressing using a dry towel. Make sure the tire dressing is completely removed from the tire tread/grooves.
- Allow the tire dressing to dry as recommended by the tire dressing manufacturer.

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Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry, soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water to clean the meter and gauge lens.

⚠WARNING

Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensor. This can also affect the operation of the air bag system and result in serious personal injury.

⚠CAUTION

- **Never use benzine, thinner or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the leather's natural finish.**
- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.**

AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using the air fresheners.

FLOOR MATS

⚠WARNING

To avoid potential pedal interference that may result in a collision or injury:

- **NEVER place a floor mat on top of another floor mat in the driver front position.**
- **Use only genuine NISSAN floor mats specifically designed for use in your vehicle model. For additional information, refer to your NISSAN dealer.**
- **Properly position the mats in the floorwell using the floor mat positioning aid. For additional information, refer to "Floor mat positioning aid" in this section.**

The use of genuine NISSAN floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

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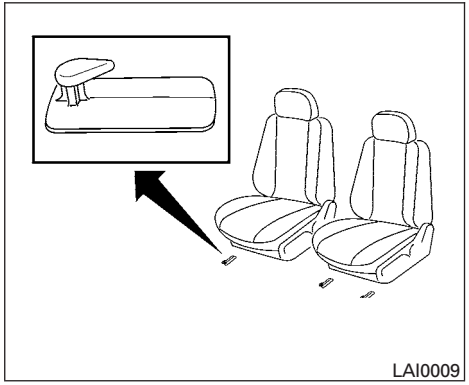
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Floor mat positioning aid

This vehicle includes two driver's side front floor mat brackets and one passenger's side front floor mat bracket to help keep your floor mats in place. Genuine NISSAN floor mats have been specially designed for your vehicle model. The driver's side floor mat has two grommet holes incorporated in it and the passenger's side has one grommet hole. Position each mat by placing the floor mat bracket hook through the floor mat grommet holes while centering the mat in the floorwell.

Periodically check to make certain the mats are properly positioned.

SEAT BELTS

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely in the shade before using them. For additional information, refer to "Seat belt maintenance" in the "Safety – Seats, seat belts and supplemental restraint system" section of this manual.

⚠WARNING

Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

Most vehicle corrosion is caused by:

- the accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas
- damage to paint and other protective coatings caused by gravel and stone chips or minor traffic collisions

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION

Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle and should be removed for drying to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing and where atmospheric pollution exists and road salt is used.

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Temperature

High temperatures accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use accelerates the corrosion process. Road salt also accelerates the disintegration of paint surfaces.

PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

⚠CAUTION

- **NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface de-icing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS

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Information Provided by:
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MAINTENANCE REQUIREMENTS

Your NISSAN has been designed to have minimum maintenance requirements with long service intervals to save you both time and money; however, some day-to-day and regular maintenance is essential to maintain your NISSAN's good mechanical condition as well as its emissions and engine performance.

It is the owner's responsibility to make sure that the scheduled maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives proper maintenance. You are a vital link in the maintenance chain.

Scheduled maintenance

For your convenience, both required and optional scheduled maintenance items are described and listed in your "NISSAN Service and Maintenance Guide". You must refer to that guide to ensure that necessary maintenance is performed on your NISSAN at regular intervals.

General maintenance

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. It is your responsibility to perform these maintenance procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by you, a qualified technician or, if you prefer, a NISSAN dealer.

Where to go for service

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and corrected by a NISSAN dealer.

NISSAN technicians are well-trained specialists who are kept up-to-date with the latest service information through technical bulletins, service tips and in-dealership training programs. They are completely qualified to work on NISSAN vehicles **before** they work on your vehicle rather than after they have worked on it.

You can be confident that a NISSAN dealer's service department performs the best job to meet the maintenance requirements on your vehicle — in a reliable and economical way.

GENERAL MAINTENANCE

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smells, be sure to check for the cause or have a NISSAN dealer do it promptly. In addition, you should notify a NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe the "Maintenance precautions" in this section.

EXPLANATION OF GENERAL MAINTENANCE ITEMS

Additional information on the following items with " * " is found in this section.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and engine hood Check that the doors and engine hood operate properly. Also ensure that all latches lock securely. Lubricate hinges, latches, latch pins, rollers and links as necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.

Information Provided by: DEALER E-PROCESS

When driving in areas using road salt or other corrosive materials, check lubrication frequently.

Lights* Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

Road wheel nuts (lug nuts)* When checking the tires, make sure no wheel nuts are missing, and check for any loose wheel nuts. Tighten if necessary.

Tire rotation* Tires should be rotated every 5,000 miles (8,000 km).

Tires* Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

Tire Pressure Monitoring System (TPMS) transmitter components Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.

Wheel alignment and balance If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

- For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.

Windshield Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility.

Windshield wiper blades* Check for cracks or wear if they do not wipe properly.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Additional information on the following items with an “*” is found in this section.

Accelerator pedal Check the pedal for smooth operation and make sure the pedal does not bind or require uneven effort. Keep the floor mat away from the pedal.

Automatic transmission P (Park) position mechanism On a fairly steep hill check that your vehicle is held securely with the shift lever in the P (Park) position without applying any brakes.

Brake pedal Check the pedal for smooth operation. If the brake pedal suddenly goes down further than normal, the pedal feels spongy or the vehicle seems to take longer to stop, see a NISSAN dealer immediately. Keep the floor mat away from the pedal.

Brakes Check that the brakes do not pull the vehicle to one side when applied.

Parking brake Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs adjustment, see a NISSAN dealer.

Seats Check seat position controls such as seat adjusters, seatback recliner, etc. to ensure they operate smoothly and all latches lock securely in every position. Check that the head restraints/headrests move up and down smoothly and the locks (if so equipped) hold securely in all latched positions.

Seat belts Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

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Steering wheel Check for changes in the steering system, such as excessive freeplay, hard steering or strange noises.

Warning lights and chimes Make sure all warning lights and chimes are operating properly.

Windshield wiper and washer* Check that the wipers and washer operate properly and that the wipers do not streak.

Windshield defroster Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.

Under the hood and vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Battery* Check the fluid level in each cell. It should be between the MAX and MIN lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, ect.)
2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

Brake and clutch (if so equipped) fluid levels* Make sure that the brake and clutch fluid level is between the MIN and MAX lines on the reservoir.

Engine coolant level* Check the coolant level when the engine is cold.

Engine drive belts* Make sure the drive belts are not frayed, worn, cracked or oily.

Engine oil level* Check the level after parking the vehicle on a level surface with the engine off. Wait more than 10 minutes for the oil to drain back into the oil pan.

Exhaust system Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately have the exhaust system inspected by a NISSAN dealer. Refer to the carbon monoxide warning in the “Starting and driving” section of this manual.

Fluid leaks Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and have it corrected immediately.

Power steering fluid level* and lines Check the level when the fluid is cold, with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

Radiator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, rot or loose connections.

Information Provided by: DEALER E-PROCESS

Underbody The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances from the underbody, otherwise rust may form on the floor pan, frame, fuel lines and exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, in those areas where mud and dirt may have accumulated. Refer to the “Appearance and care” section of this manual.

Windshield-washer fluid* Check that there is adequate fluid in the reservoir.

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

⚠WARNING

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the shift lever to P (Park).**
- **Be sure the ignition key is in the OFF or LOCK position when performing any parts replacement or repairs.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition key is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from the fuel tank and battery.**
- **On gasoline engine models, the fuel filter or fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is off.**

Information Provided by: DEALER E-PROCESS

⚠CAUTION

- **Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.**
- **Avoid contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.**
- **Never leave the engine or the transmission related component harness connector disconnected while the ignition switch is in the ON position.**
- **Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.**

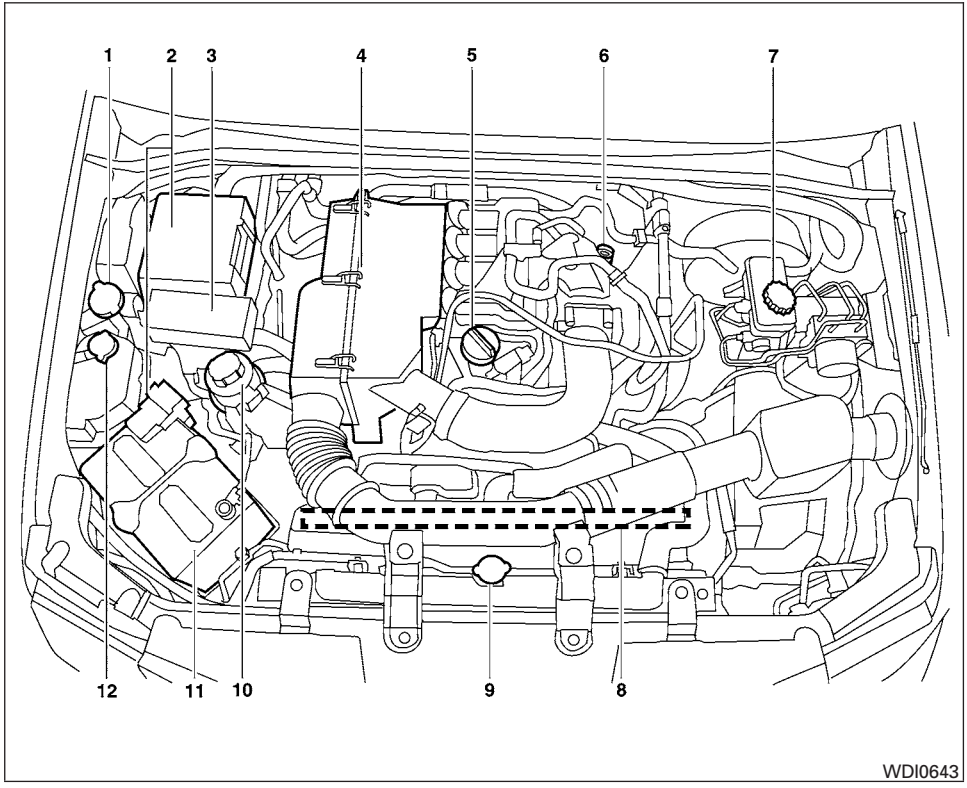
This “Maintenance and do-it-yourself” section gives instructions regarding only those items which are relatively easy for an owner to perform.

A Genuine NISSAN service manual is also available. For additional information, refer to “Owner’s Manual/Service Manual order information” in the “Technical and consumer information” section of this manual.

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect warranty coverage. **If in doubt about any servicing, have it done by a NISSAN dealer.**

Information Provided by:
DEALER E-PROCESS

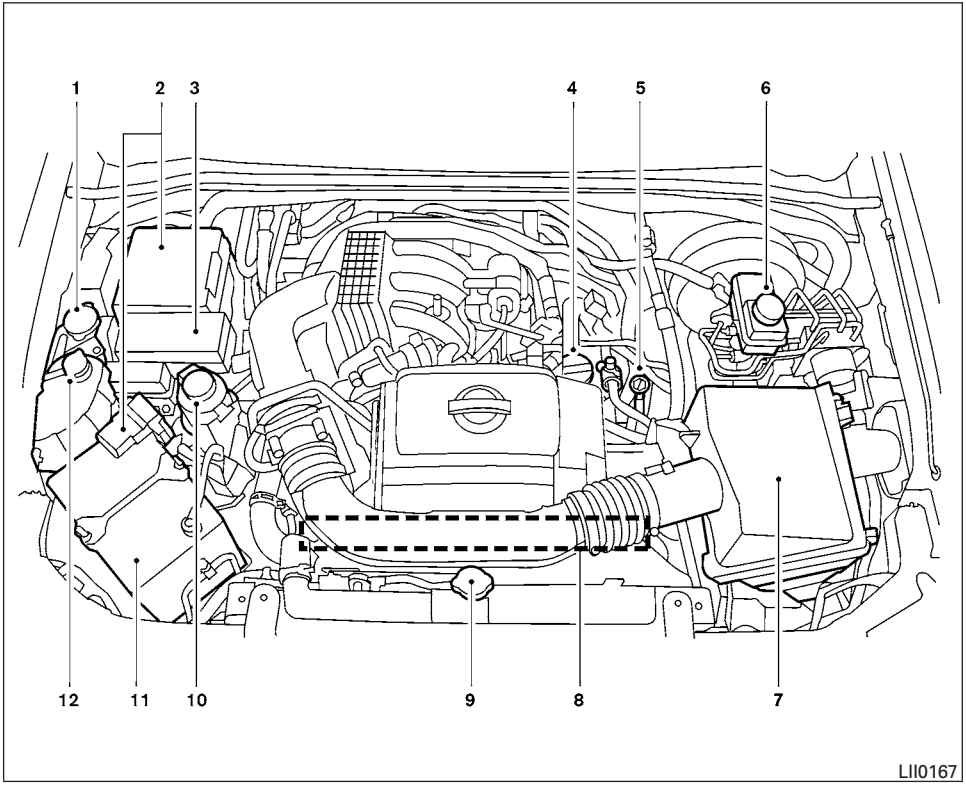
ENGINE COMPARTMENT CHECK LOCATIONS



QR25DE engine

1. Windshield-washer fluid reservoir
2. Fuse/Fusible link box
3. Fuse and relay box
4. Air cleaner
5. Engine oil filler cap
6. Engine oil dipstick
7. Brake fluid reservoir/Clutch fluid reservoir (M/T model)
8. Drive belt location
9. Radiator cap
10. Power steering fluid reservoir
11. Battery
12. Engine coolant reservoir

Information Provided by:
DEALER E-PROCESS



VQ40DE engine

1. Windshield-washer fluid reservoir
2. Fuse/fusible link box
3. Fuse and relay box
4. Engine oil filler cap
5. Engine oil dipstick
6. Brake fluid reservoir/Clutch fluid reservoir (M/T model)
7. Air cleaner
8. Drive belt location
9. Radiator cap
10. Power steering fluid reservoir
11. Battery
12. Engine coolant reservoir

Information Provided by:
DEALER E-PROCESS

The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year-round antifreeze and coolant protection. The antifreeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

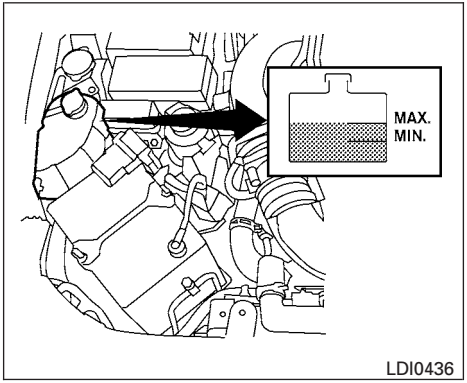
⚠ WARNING

- **Never remove the radiator or coolant reservoir cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator. For additional information, refer to precautions in "If your vehicle overheats" found in the "In case of emergency" section of this manual.**
- **The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a Genuine NISSAN radiator cap.**

⚠ CAUTION

- **Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the engine, transmission and/or cooling system.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent. Genuine NISSAN Long Life Antifreeze/Coolant (blue) is pre-diluted to provide antifreeze protection to -34° F (-37° C). If additional freeze protection is needed due to weather where you operate your vehicle, add Genuine NISSAN Long Life Antifreeze/Coolant (blue) concentrate following the directions on the container. If an equivalent coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufacturer's instructions to maintain minimum antifreeze protection to -34° F (-37° C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent may damage the engine cooling system.**
- **The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. For additional information, refer to the NISSAN Service and Maintenance Guide.**

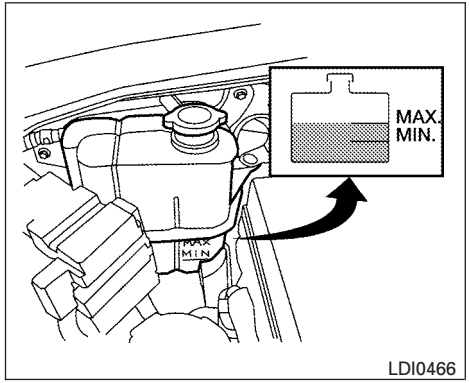
Information Provided by: DEALER E-PROCESS



VQ40DE

CHECKING ENGINE COOLANT LEVEL

Check the coolant level **in the reservoir when the engine is cold.** If the coolant level is below the MIN level, add coolant to the MAX level. If the reservoir is empty, check the coolant level in the radiator **when the engine is cold.** If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir up to the MAX level.



QR25DE

This vehicle contains Genuine NISSAN Long Life Antifreeze/Coolant (blue). The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. For additional information, refer to the NISSAN Service and Maintenance Guide.

The engine coolant reservoir is a pressurized tank. When installing the cap, tighten.

If the cooling system frequently requires coolant, have it checked by a NISSAN dealer.

CHANGING ENGINE COOLANT

A NISSAN dealer can change the engine coolant. The service procedure can be found in the NISSAN Service Manual.

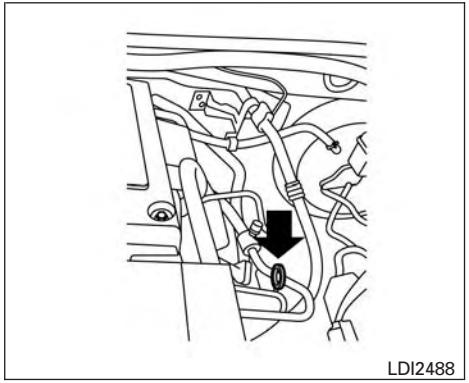
Improper servicing can result in reduced heater performance and engine overheating.

⚠WARNING

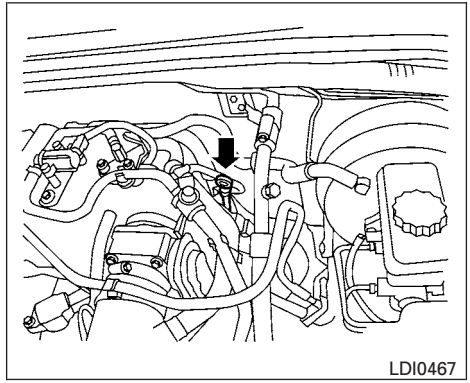
- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator or engine coolant reservoir cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of the reach of children and pets.**

Engine coolant must be disposed of properly. Check your local regulations.

Information Provided by:
DEALER E-PROCESS



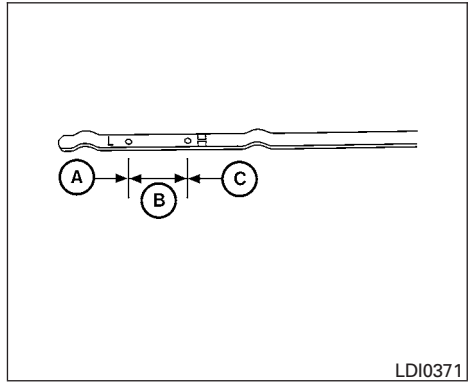
VQ40DE



QR25DE

CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and let it idle until it reaches operating temperature.
3. Turn off the engine. **Wait more than 10 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick and wipe it clean. Re-insert it all the way.



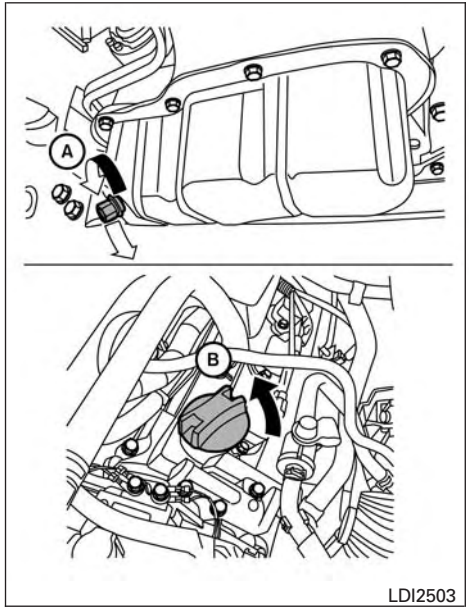
5. Remove the dipstick again and check the oil level. It should be between the H (High) and L (Low) marks Ⓑ. This is the normal operating oil level range. If the oil level is below the L (Low) mark Ⓐ, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill Ⓒ.**
6. Recheck oil level with the dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.

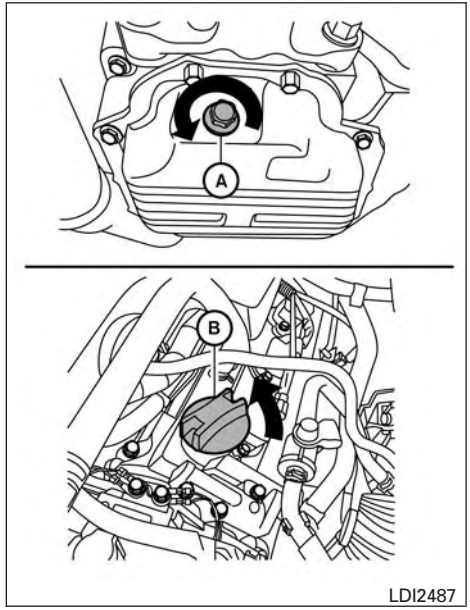
Information Provided by:
DEALER E-PROCESS

⚠CAUTION

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.



VQ40DE



QR25DE

CHANGING ENGINE OIL

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and let it idle until it reaches operating temperature, then turn it off.
3. Remove the oil filler cap Ⓑ by turning it counterclockwise.

Information Provided by: DEALER E-PROCESS

4. Place a large drain pan under the drain plug Ⓐ.
5. Remove the drain plug with a wrench by turning it counterclockwise and completely drain the oil.

   If the oil filter is to be changed, remove and replace it at this time. Refer to “Changing engine oil filter” in this section.

- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

⚠ WARNING

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**

⚠ CAUTION

Be careful not to burn yourself. The engine oil may be hot.

6. Clean and reinstall the drain plug and a new washer. Securely tighten the drain plug with a wrench. Do not use excessive force.

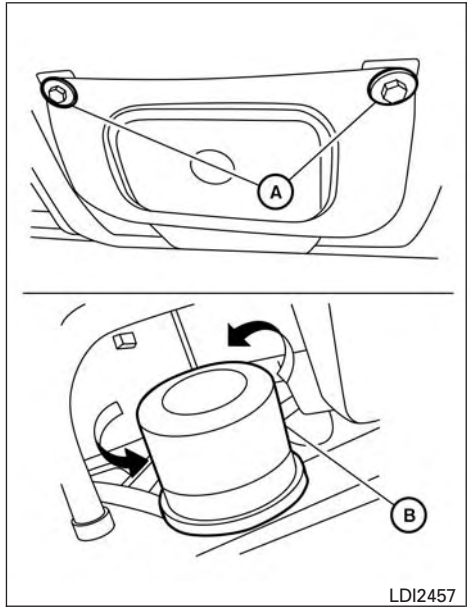
   Drain plug tightening torque:
   25 ft-lb (34 N·m)

7. Refill engine with recommended oil through the oil filler opening, then install the oil filler cap securely.

   For additional information, refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual for drain and refill capacity.

   The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.

8. Start the engine. Check for leakage around the drain plug and oil filter. Correct as required.
9. Turn the engine off and wait more than 10 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

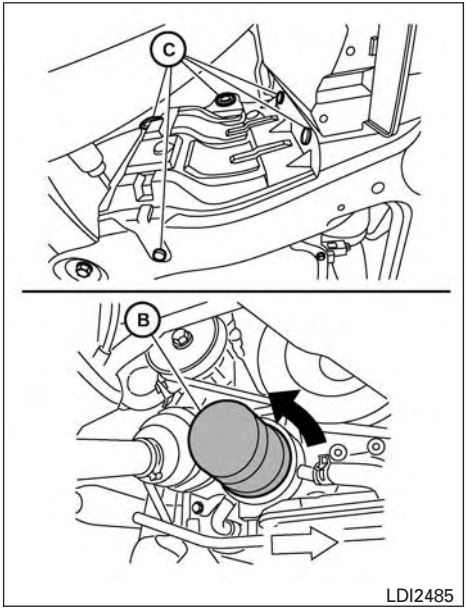


VQ40DE

CHANGING ENGINE OIL FILTER

1. Park the vehicle on a level surface and apply the parking brake.
2. Turn the engine off.

Information Provided by: DEALER E-PROCESS



QR25DE

3. Place a large drain pan under the oil filter.
4. Unscrew Ⓐ the plate covering the oil filter exposing the filter. (For VQ40DE engine)
5. Remove pins Ⓒ from the right engine protector located inside right wheel well and remove protector. (For QR25DE engine)
6. Loosen the oil filter Ⓑ with an oil filter wrench by turning it counterclockwise. Then remove the oil filter by turning it by hand.

⚠ CAUTION

Be careful not to burn yourself. The engine oil may be hot.

7. Wipe the engine oil filter sealing surface with a clean rag.

⚠ CAUTION

Be sure to remove any old gasket material remaining on the sealing surface of the engine. Failure to do so could lead to engine damage.

8. Coat the gasket on the new filter with clean engine oil.
9. Screw on the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.
10. Start the engine and check for leakage around the oil filter. Correct as required.
11. Install the plate covering the oil filter. (For VQ40DE engine)
12. Install the right engine protector and pins. (For QR25DE engine)
13. Turn the engine off and wait more than 10 minutes. Check the oil level. Add engine oil if necessary.

Information Provided by:
DEALER E-PROCESS

5-SPEED AUTOMATIC TRANSMISSION FLUID (if so equipped)

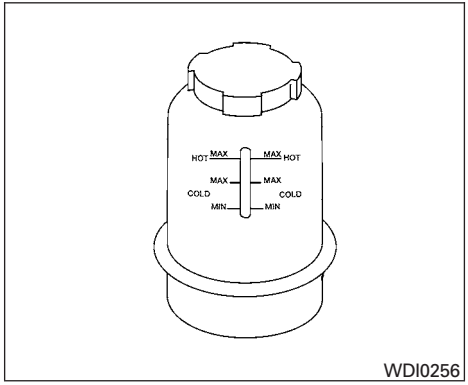
When checking or replacement is required, we recommend your NISSAN dealer for servicing.

⚠ CAUTION

- **Use Genuine NISSAN Matic S ATF. If Genuine NISSAN Matic S ATF is not available, Genuine NISSAN Matic J ATF may also be used.**
- **Using automatic transmission fluid other than Genuine NISSAN Matic S ATF or Matic J ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the NISSAN new vehicle limited warranty.**

The specified automatic transmission fluid is also described on caution labels located in the engine compartment.

POWER STEERING FLUID



The fluid level should be checked using the HOT MAX range on the power steering fluid reservoir at fluid temperatures of 122° - 176°F (50° - 80°C) or using the COLD MAX range on the power steering fluid reservoir at fluid temperatures of 32° - 86°F (0° - 30°C).

If the fluid is at or below the MIN line, add Genuine NISSAN PSF. Remove the cap and fill through the opening.

⚠ CAUTION

- **DO NOT OVERFILL.**
- **Recommended fluid is Genuine NISSAN PSF or equivalent.**

BRAKE AND CLUTCH (if so equipped) FLUID

For further brake and clutch fluid specification information, refer to "Recommended fluids/lubricants and capacities" in the "Technical and consumer information" section of this manual.

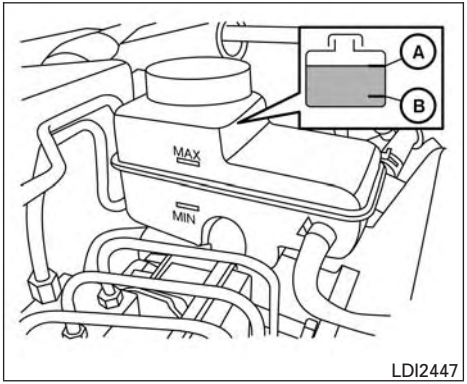
⚠ WARNING

- **Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake and clutch (if so equipped) systems. The use of improper fluids can damage the brake and clutch system and affect the vehicle's stopping ability.**
- **Clean the filler cap before removing.**
- **Brake and clutch fluid is poisonous and should be stored carefully in marked containers out of reach of children.**

⚠ CAUTION

Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.

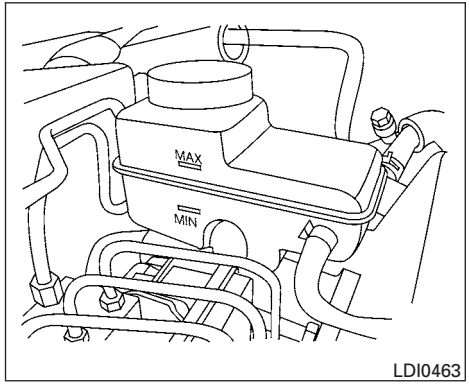
Information Provided by: DEALER E-PROCESS



LDI2447

BRAKE FLUID

Check the brake fluid level in the reservoir. If the fluid level is below the MIN line Ⓑ or the brake warning light comes on, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent **DOT 3** fluid up to the MAX line Ⓐ. If fluid must be added frequently, the system should be checked by a NISSAN dealer.

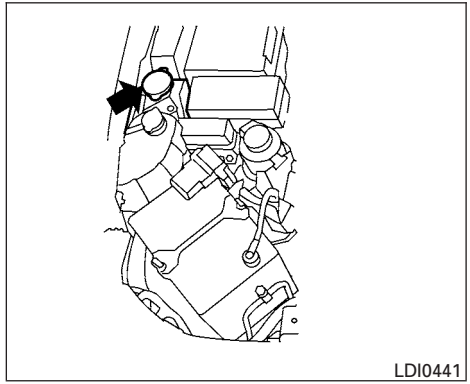


LDI0463

CLUTCH FLUID (if so equipped)

Check the clutch fluid level in the reservoir (manual transmissions only). If the fluid level is below the MIN line, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent **DOT 3** fluid up to the MAX line. If fluid must be added frequently, the system should be checked by a NISSAN dealer.

For further brake and clutch fluid specification information, refer to “Recommended fluids/lubricants and capacities” in the “Technical and consumer information” section of this manual.


LDI0441

WINDSHIELD-WASHER FLUID RESERVOIR

Fill the windshield-washer fluid reservoir periodically. Add windshield-washer fluid when the low windshield-washer fluid warning light (if so equipped) comes on.

To fill the windshield-washer fluid reservoir, lift the cap off the reservoir and pour the windshield-washer fluid into the reservoir opening.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windshield-washer antifreeze. Follow the manufacturer’s instructions for the mixture ratio.

Information Provided by:
DEALER E-PROCESS

Refill the reservoir more frequently when driving conditions require an increased amount of windshield-washer fluid.

Recommended fluid is Genuine NISSAN Windshield-Washer Concentrate Cleaner & Antifreeze or equivalent.

⚠CAUTION

- **Do not substitute engine antifreeze coolant for windshield-washer solution. This may result in damage to the paint.**
- **Do not fill the windshield-washer reservoir with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the windshield-washer reservoir.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the windshield-washer reservoir. Do not use the windshield-washer reservoir to mix the washer fluid concentrate and water.**

- Keep the battery surface clean and dry. Clean the battery with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the negative (-) battery terminal cable to prevent discharge.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

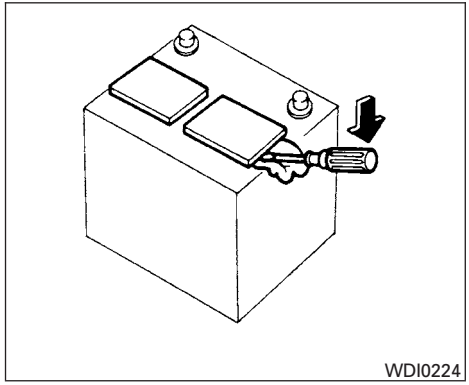
1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)
2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

⚠WARNING

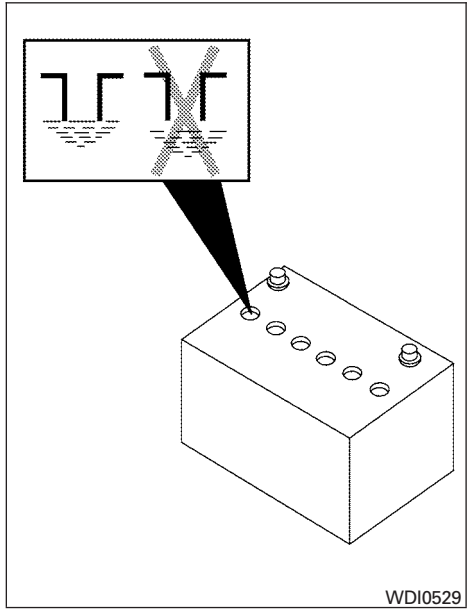
- **Do not expose the battery to flames, an electrical spark or a cigarette. Hydrogen gas generated by the battery is explosive. Explosive gases can cause blindness or injury. Do not allow battery fluid to contact your skin, eyes, fabrics or painted surfaces. Sulfuric acid can cause blindness or injury. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.**

Information Provided by: DEALER E-PROCESS

- **Keep battery out of the reach of children.**
- **Do not tip the battery. Keep the vent caps tight and the battery level.**



1. Remove the vent caps with a screwdriver as shown. Use a cloth to protect the battery case.



2. Check the fluid level in each cell. If it is necessary to add fluid, add only distilled water to bring the level up to the bottom of the filler opening. **Do not overfill.** Reinstall the vent caps.

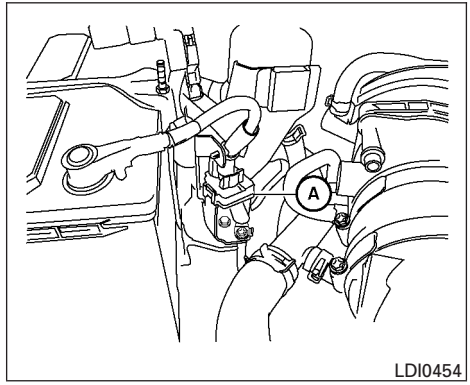
Information Provided by: DEALER E-PROCESS

VARIABLE VOLTAGE CONTROL SYSTEM

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

JUMP STARTING

If jump starting is necessary, refer to “Jump starting” in the “In case of emergency” section of this manual for additional information. If the engine does not start by jump starting, the battery may have to be replaced. Contact a NISSAN dealer.



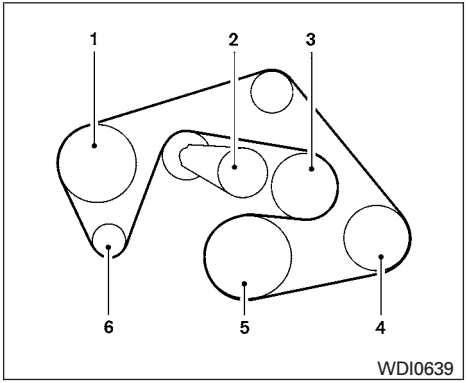
⚠CAUTION

- **Do not ground accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

Your vehicle is equipped with a variable voltage control system. This system measures the amount of electrical discharge from the battery and controls voltage generated by the generator.

The current sensor Ⓐ is located near the battery along the negative battery cable. If you add electrical accessories to your vehicle, be sure to ground them to a suitable body ground such as the frame or engine block area.

Information Provided by: DEALER E-PROCESS



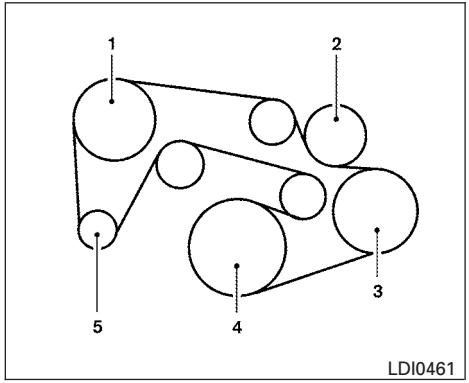
VQ40DE

1. Power steering fluid pump pulley
2. Automatic belt tensioner pulley
3. Cooling fan pulley
4. Air conditioner compressor pulley
5. Crankshaft pulley
6. Generator pulley

⚠WARNING

Be sure the ignition key is in the OFF or LOCK position before servicing drive belt. The engine could rotate unexpectedly.

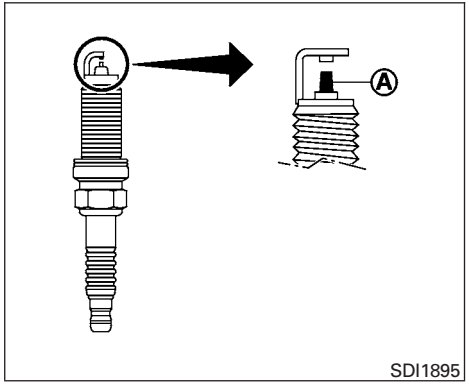
1. Visually inspect the belt for signs of unusual wear, cuts, fraying or looseness. If the belt is in poor condition or is loose, have it replaced or adjusted by a NISSAN dealer.
2. Have the belt checked regularly for condition and tension in accordance with the maintenance schedule found in the “NISSAN Service and Maintenance Guide”.



QR25DE

1. Power steering fluid pump pulley
2. Water pump pulley
3. Air conditioner compressor pulley (if so equipped)
4. Crankshaft pulley
5. Generator pulley

Information Provided by:
DEALER E-PROCESS



REPLACING SPARK PLUGS

Platinum-tipped spark plugs (QR25DE models)

It is not necessary to replace platinum-tipped Ⓐ spark plugs as frequently as conventional type spark plugs because they last much longer. Follow the maintenance log shown in the “NISSAN Service and Maintenance Guide”. Do not service platinum-tipped spark plugs by cleaning or regapping.

- **Always replace spark plugs with recommended or equivalent ones.**

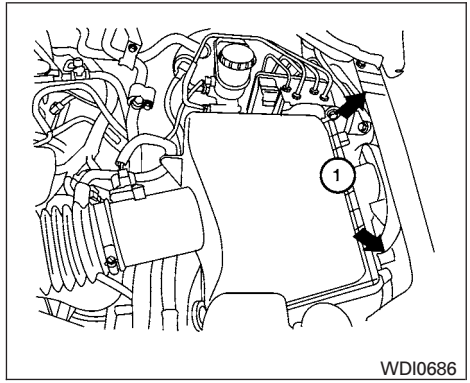
If replacement is required, see your NISSAN dealer for assistance.

Iridium-tipped spark plugs (VQ40DE models)

It is not necessary to replace iridium-tipped Ⓐ spark plugs as frequently as conventional type spark plugs because they last much longer. Follow the maintenance log shown in the “NISSAN Service and Maintenance Guide”. Do not service iridium-tipped spark plugs by cleaning or regapping.

- **Always replace spark plugs with recommended or equivalent ones.**

If replacement is required, see your NISSAN dealer for assistance.



VQ40DE

The air cleaner filter should not be cleaned and reused. Replace it according to the maintenance log shown in the “NISSAN Service and Maintenance Guide.” When replacing the filter, wipe the inside of the air cleaner filter housing and the cover with a damp cloth.

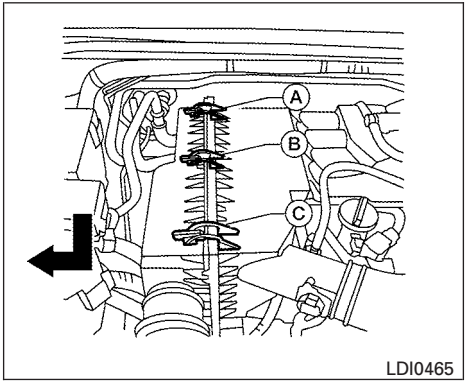
To remove the VQ40DE air cleaner filter:

① Push down on the clips and remove the air cleaner cover. Remove the air cleaner filter.

To remove the QR25DE air cleaner filter:

1. Unlatch the clips Ⓐ, Ⓑ, Ⓒ.

Information Provided by:
DEALER E-PROCESS

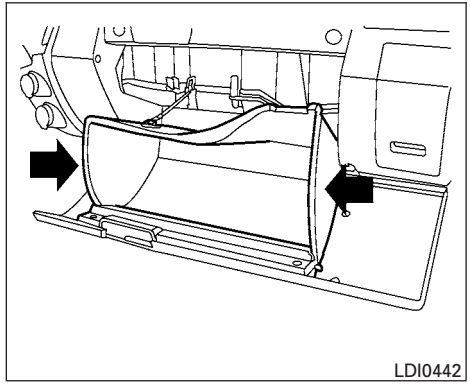


QR25DE

2. Push down half of air cleaner to clear the bottom retainers.
3. Lift up on half of air cleaner to remove the air cleaner filter

⚠WARNING

- **Operating the engine with the air cleaner removed can cause you or others to be burned. The air cleaner not only cleans the air, it stops the flame if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Do not drive with the air cleaner removed, and be careful when working on the engine with the air cleaner removed.**
- **Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.**



IN-CABIN MICROFILTER (if so equipped)

The in-cabin microfilter restricts the entry of airborne dust and pollen particles and reduces some objectionable outside odors. The filter is located behind the glove box. Refer to the "NISSAN Service and Maintenance Guide" for change intervals.

To replace the filter, perform the following procedure:

1. Open the glove box and press in on the sides so that it will open completely allowing it to hang by the cord.

Information Provided by:
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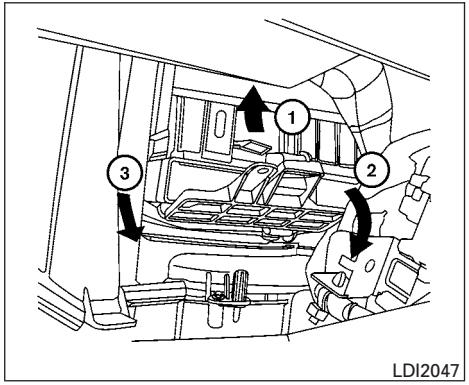


2. Gently lift up on the tab ①.
3. Pull the filter cover toward you and then down ②.
4. Remove the old filter ③.

NOTE:

The filter is marked with air flow arrows. The end of the filter with the arrow should face the rear of the vehicle. The arrows should face downward.

5. Insert the new filter into the housing and slide it over to the right.
6. Replace the filter cover. The cover will click into place under the tab.
7. Install the glove box door.

CLEANING

If your windshield is not clear after using the windshield-washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

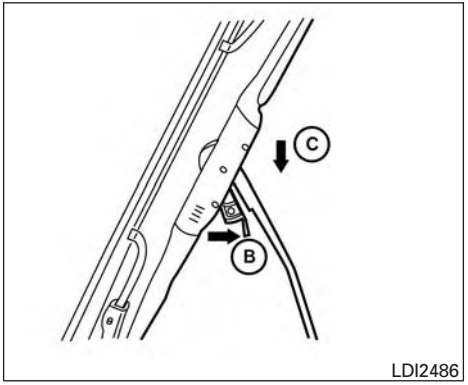
Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean each blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blades with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.

⚠ CAUTION

Worn windshield wiper blades can damage the windshield and impair driver vision.

Information Provided by: DEALER E-PROCESS



LDI2486

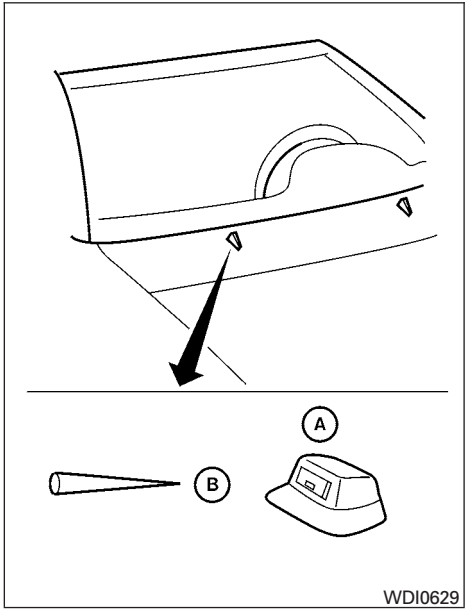
REPLACING

Replace the wiper blades if they are worn.

1. Lift the wiper arm away from the windshield.
2. Push the release tab Ⓑ then move the wiper blade down the wiper arm to remove.
3. Remove the wiper blade from wiper arm Ⓒ.
4. Insert the new wiper blade onto the wiper arm until it clicks into place.
5. Rotate the wiper blade so the dimple is in the groove.
6. Return the wiper to its original position and release it until it has made contact with the windshield.

⚠CAUTION

- **After wiper blade replacement, return the wiper arm to its original position; otherwise it may be damaged when the hood is opened.**
- **Make sure the wiper blades contact the glass; otherwise the arms may be damaged from wind pressure.**



WDI0629

If you wax the surface of the hood, be careful not to let wax get into the windshield-washer nozzle Ⓐ. This may cause clogging or improper windshield-washer operation. If wax gets into the nozzle, remove it with a needle or small pin Ⓑ.

Information Provided by: DEALER E-PROCESS

If the brakes do not operate properly, have the brakes checked by a NISSAN dealer.

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

The front and rear disc-type brakes self-adjust every time the brake pedal is applied.

⚠ WARNING

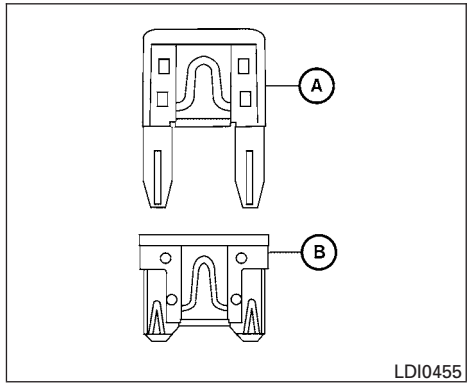
See a NISSAN dealer for a brake system check if the brake pedal height does not return to normal.

Brake pad wear indicators

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, a high pitched scraping or screeching sound will be heard when the vehicle is in motion. The noise will be heard whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator sound is heard.

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information regarding brake inspections, refer to the appropriate maintenance schedule information in the “NISSAN Service and Maintenance Guide”.

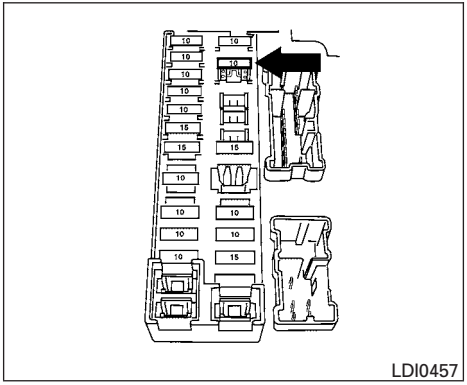


Two types of fuses are used. Type Ⓐ is used in the fuse boxes in the engine compartment. Type Ⓑ is used in the passenger compartment fuse box.

Type Ⓐ fuses are provided as spare fuses. They are stored in the passenger compartment fuse box.

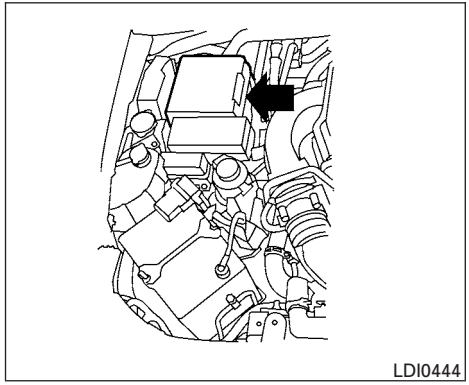
Type Ⓐ fuses can be installed in the engine compartment and passenger compartment fuse boxes.

Information Provided by: DEALER E-PROCESS


LDI0457

If a type Ⓐ fuse is used to replace a type Ⓑ fuse, the type Ⓐ fuse will not be level with the fuse pocket as shown in the illustration. This will not affect the performance of the fuse. Make sure the fuse is installed in the fuse box securely.

Type Ⓑ fuses cannot be installed in the underhood fuse boxes. Only use type Ⓐ fuses in the underhood fuse boxes.


LDI0444

ENGINE COMPARTMENT

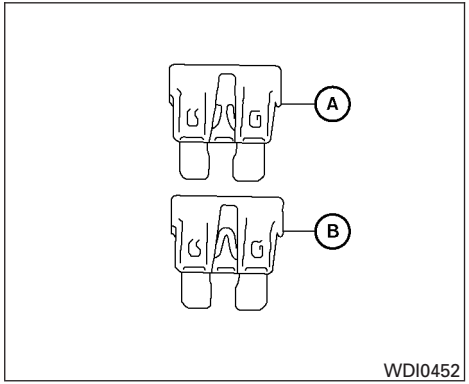
⚠ CAUTION

Never use a fuse of a higher or lower amperage rating than specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not come on, check for an open fuse.

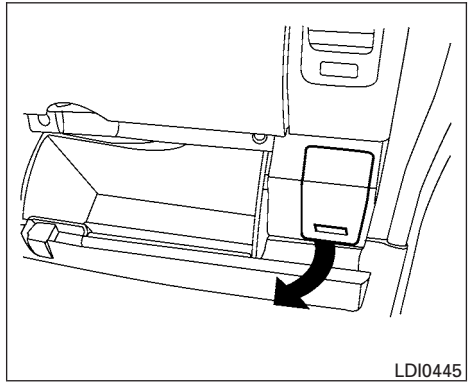
1. Be sure the ignition switch and the headlight switch are OFF.
2. Open the engine hood.
3. Remove the fuse box cover by pushing the tab and lifting the cover up.
4. Remove the fuse with the fuse puller. The fuse puller is located in the center of the fuse block in the passenger compartment.

Information Provided by: DEALER E-PROCESS



WDI0452

5. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ.
6. If a new fuse also opens, have the electrical system checked and repaired by a NISSAN dealer.


LDI0445

Fusible links

If the electrical equipment does not operate and fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace with only Genuine NISSAN parts.

PASSENGER COMPARTMENT

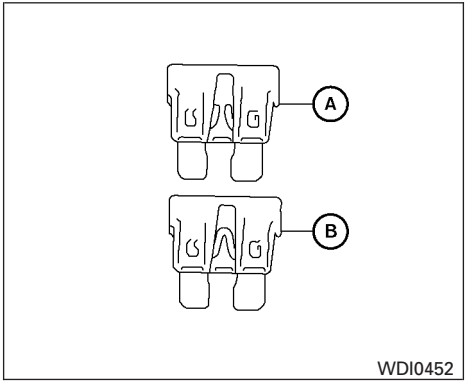
⚠ CAUTION

Never use a fuse of a higher or lower amperage rating than specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

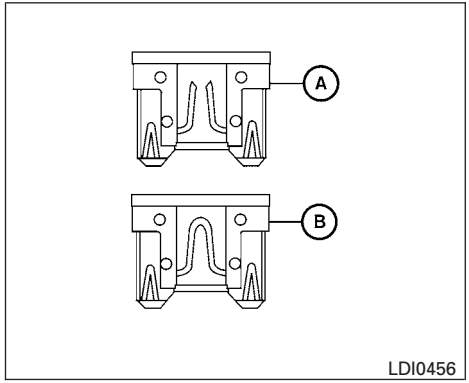
1. Be sure the ignition switch and the headlight switch are OFF.
2. Pull the fuse box cover to remove.
3. Remove the fuse with the fuse puller.

Information Provided by:
DEALER E-PROCESS

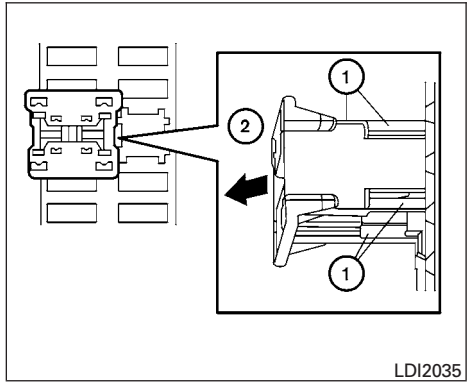


Type A

4. If the fuse is open Ⓐ, replace it with an equivalent good fuse Ⓑ.
5. Reverse step 2 to reinstall fuse box cover.
6. If a new fuse also opens, have the electrical system checked and repaired by a NISSAN dealer.



Type B



Extended storage switch

If any electrical equipment does not operate, remove the extended storage switch and check for an open fuse.

NOTE:

The extended storage switch is used for long term vehicle storage. Even if the extended storage switch is broken it is not necessary to replace it. Replace only the open fuse in the switch with a new fuse.

Information Provided by:
DEALER E-PROCESS

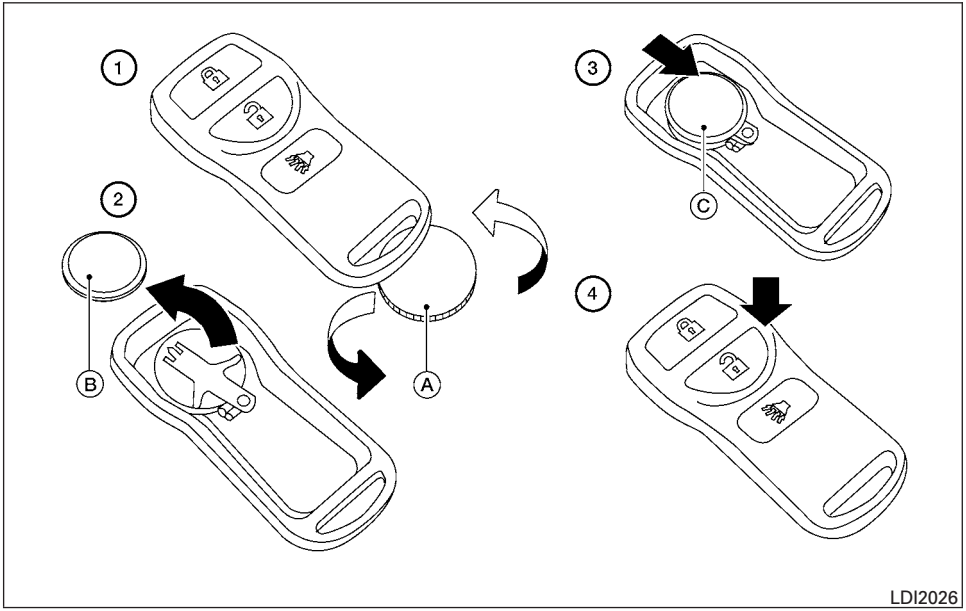
How to remove the extended storage switch:

1. To remove the extended storage switch, be sure the ignition switch is in the OFF or LOCK position.
2. Be sure the headlight switch is in the OFF position.
3. Remove the fuse box cover.
4. Pinch the locking tabs ① found on each side of the storage switch.
5. Pull the storage switch straight out from the fuse box ②.

⚠CAUTION

Be careful not to allow children to swallow the battery or removed parts.

Information Provided by: DEALER E-PROCESS



LDI2026

KEY FOB (if so equipped)

Replace the battery in the key fob as follows:

① Open the lid using a coin Ⓐ.

② Remove the battery Ⓑ.

③ Install a new battery Ⓒ with the “+” facing down.

- Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
- Do not touch the internal circuit and electric terminals as it could cause a malfunction.
- When changing the battery, do not let dust or oil get on the key fob.
- There is danger of explosion if a lithium battery is incorrectly replaced. Replace only with the same or equivalent type.

Recommended battery: CR2025 or equivalent.

④ Close the lid securely.

5. Press the button, then the button two or three times to check the key fob operation.

If the battery is removed for any reason other than replacement, perform step 5.

- **An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.**
- **The key fob is water-resistant; however, if it does get wet, immediately wipe completely dry.**
- **The operational range of the key fob extends to approximately 33 ft (10 m) from the vehicle. This range may vary with conditions.**

Information Provided by: DEALER E-PROCESS

FCC Notice:

For USA:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:
This devise complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

HEADLIGHTS

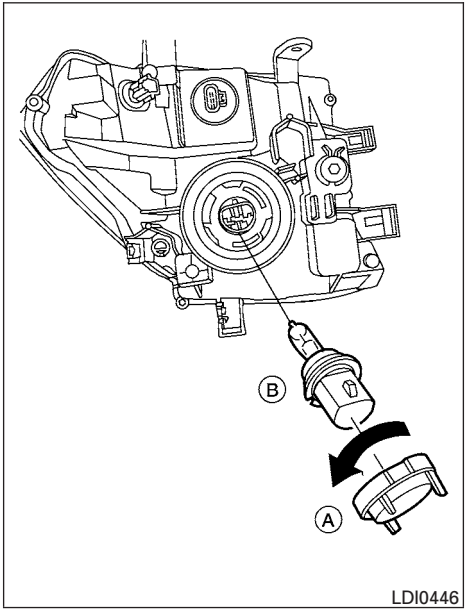
The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. A bulb can be replaced from inside the engine compartment without removing the headlight assembly.

⚠ CAUTION

- **High pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **When handling the bulb, do not touch the glass envelope.**
- **DO NOT TOUCH THE BULB WITH BARE HANDS.**
- **Use the same number and wattage as shown in the chart.**
- **Do not leave the bulb out of the headlight reflector for a long period of time as dust, moisture and smoke may enter the headlight body and affect the performance of the headlight.**
- **Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact a NISSAN dealer.**

Fog may temporarily form inside the lens of the exterior lights in the rain or in a car wash. A temperature difference between the inside and the outside of the lens causes the fog. This is not a malfunction. If large drops of water collect inside the lens, contact a NISSAN dealer.

Information Provided by: DEALER E-PROCESS



Removing the headlight bulb

1. Open the hood.
2. Disconnect the negative (-) battery cable.
3. Disconnect the electrical connector from the rear end of the bulb.
4. Turn the bulb retaining ring Ⓐ counterclockwise until it is free from the headlight reflector and then remove it.
5. Carefully remove the headlight bulb. Do not shake or rotate the bulb Ⓑ when removing it.

Replacing the headlight bulb

1. Insert the bulb.

   DO NOT TOUCH THE BULB WITH BARE HANDS.

2. Install and tighten the bulb retainer.
   - Be sure the lip of the bulb socket contacts the headlight body.
3. Push the electrical connector into the bulb plastic base until it snaps and stops.
4. Connect the negative (-) battery cable.
5. Close the hood.

FOG LIGHTS (if so equipped)

Replacing the fog light bulb (if so equipped)

⚠ CAUTION

If replacement is required, see your NISSAN dealer.

- **High pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **When handling the bulb, do not touch the glass envelope.**
- **Use the same number and wattage as originally installed as shown in the chart.**
- **Do not leave the bulb out of the fog light for a long period of time as dust, moisture and smoke may enter the fog light body and affect the performance of the fog light.**

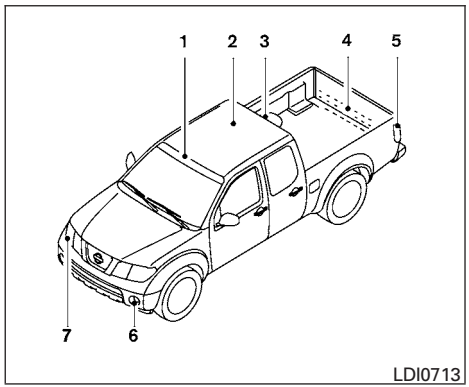
Information Provided by:
DEALER E-PROCESS

EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)	Bulb No.
Headlight/Daytime Running Light (for Canada only)	60/55	9007 (HB5)
Turn signal light/Parking light	28/8	HT7444NA
Side marker	5	168
Rear combination light		
Turn signal	27	3156AK
Stop/Tail	27/8	3157K
Back-up	18	921
License plate light	5	W5W
Fog light* (if so equipped)	55	H11
Map lights (if so equipped)	8	AL12
Vanity mirror light (if so equipped)	—	—
Interior light	8	AL25
High-mounted stop light/cargo light*	12/8	912LF

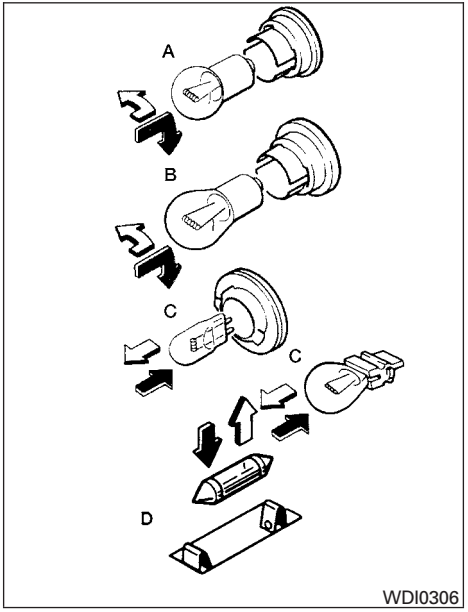
Always check with the Parts Department at a NISSAN dealer for the latest parts information.

* The bulb is not serviceable in vehicle. See a NISSAN dealer for assistance.



1. Map lights (if so equipped)
2. Interior light
3. High-mounted stop light/cargo light
4. License plate light
5. Rear combination light
6. Fog light (if so equipped)
7. Headlight assembly/Daytime Running Light (for Canada only)

Information Provided by:
DEALER E-PROCESS

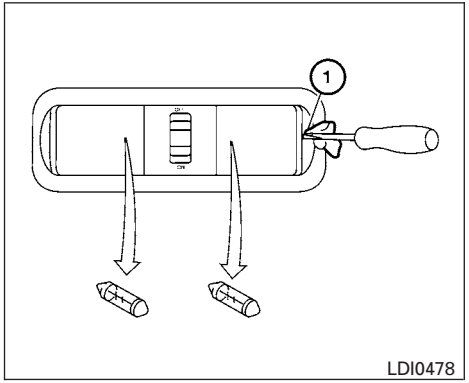


Replacement procedures

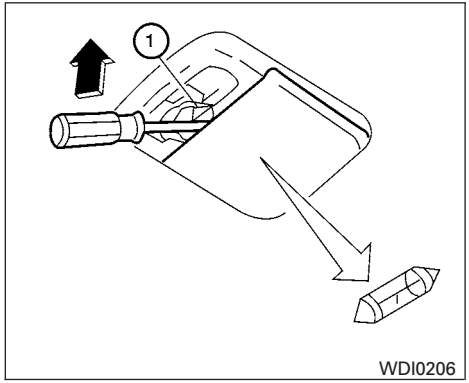
All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens and/or cover using a cloth and suitable tool.

⇧ : Indicates bulb removal

⬆ : Indicates bulb installation



Map lights (if so equipped)/personal lights



Interior light

Use a cloth ① to protect the housing.

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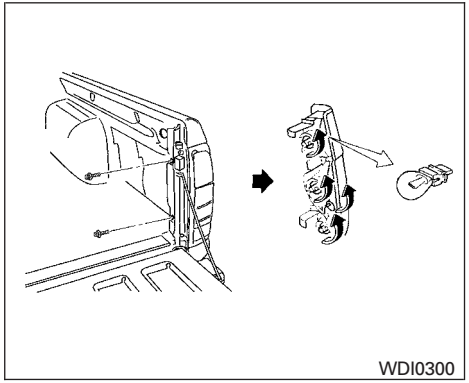
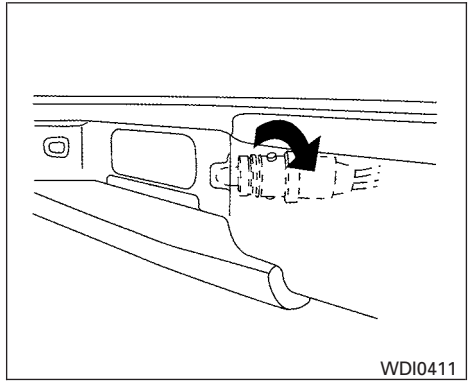


Rear combination light



License plate light

If you have a flat tire, refer to “Flat tire” in the “In case of emergency” section of this manual for additional information.

TIRE PRESSURE

Tire Pressure Monitoring System (TPMS)

This vehicle is equipped with TPMS. It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit and the CHECK TIRE PRES (pressure) warning message is displayed in the odometer, one or more of your tires is significantly under-inflated.

TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

For additional information, refer to “Low tire pressure warning light” in the “Instruments and controls” section, “Tire Pressure Monitoring System (TPMS)” in the “Starting and driving” section, and “Flat tire” in the “In case of emergency” section.

Information Provided by:
DEALER E-PROCESS

Tire inflation pressure

Check the tire pressures (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the F.M.V.S.S./C.M.V.S.S. certification label or the Tire and Loading Information label under the “Cold Tire Pressure” heading. The Tire and Loading Information label is affixed to the driver side center pillar. Tire pressures should be checked regularly because:

- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

The tire pressures should be checked when the tires are cold. The tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.

⚠WARNING

- **Improperly inflated tires can fail suddenly and cause an accident.**
- **The Gross Vehicle Weight Rating (GVWR) is located on the F.M.V.S.S./C.M.V.S.S. certification label. The vehicle weight capacity is indicated on the Tire and Loading Information label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.**
- **Before taking a long trip, or whenever you heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

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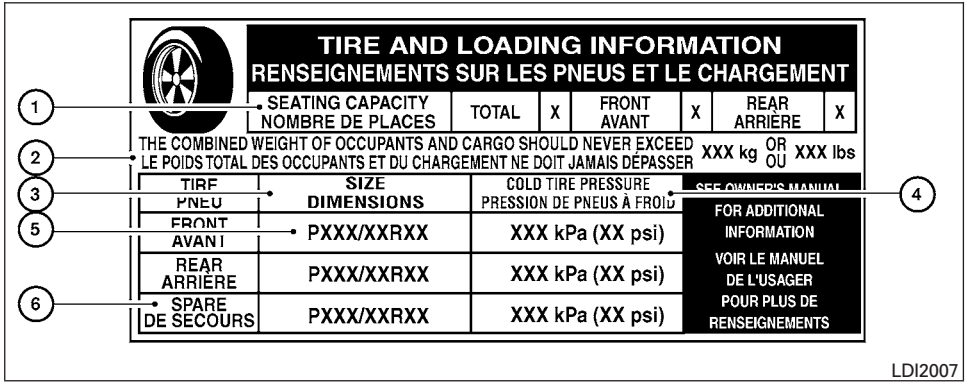

LDI2007

Tire and loading information label

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

② Vehicle load limit: Refer to loading information in the “Technical and consumer information” section.

③ Original tire size: The size of the tires originally installed on the vehicle at the factory.

④ Cold tire pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best balance of tire wear, vehicle handling, driveability, tire noise, etc., up to the vehicle’s GVWR.

⑤ Tire size - refer to “Tire labeling” in this section.

⑥ Spare tire size.

Information Provided by:
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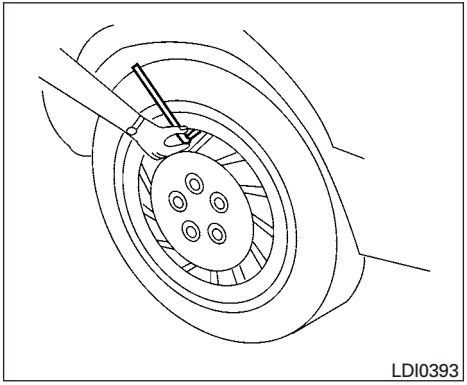
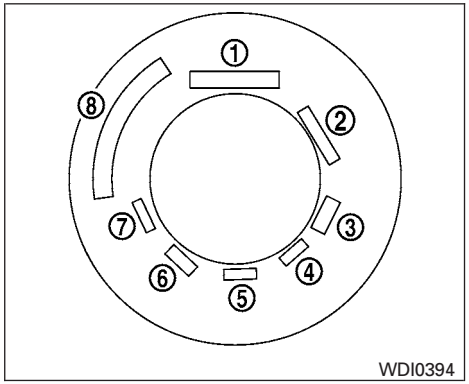


Checking tire pressure

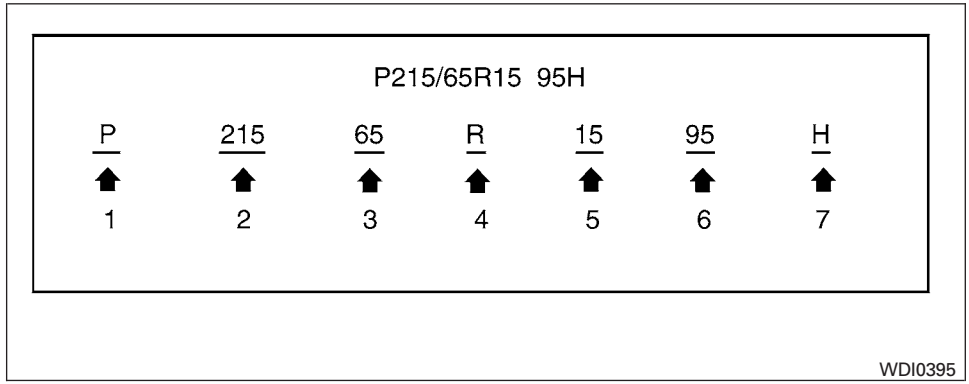
1. Remove the valve stem cap from the tire.
2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the hissing sound of air escaping from the tire is heard while checking the pressure, reposition the gauge to eliminate this leakage.
3. Remove the gauge.
4. Read the tire pressure on the gauge stem and compare to the specification shown on the F.M.V.S.S./C.M.V.S.S. label or the Tire and Loading Information label.
5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.
6. Install the valve stem cap.
7. Check the pressure of all other tires, including the spare.

Size	Cold Tire Inflation Pressure
Front Original Tire: 235/75R15 P265/70R16 P265/75R16 P265/60R18	240 kPa, 35 PSI
Rear Original Tire: 235/75R15 P265/70R16 P265/75R16 P265/60R18	240 kPa, 35 PSI
Spare Tire: 235/75R15 P265/70R16 P265/75R16 P265/60R18	240 kPa, 35 PSI

Information Provided by:
DEALER E-PROCESS



Example



Example

TIRE LABELING

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.

① Tire size (example: P215/65R15 95H)

1. P: The “P” indicates the tire is designed for passenger vehicles (not all tires have this information).
2. Three-digit number (215): This number gives the width in millimeters of the tire from sidewall edge to sidewall edge.
3. Two-digit number (65): This number, known as the aspect ratio, gives the tire’s ratio of height to width.
4. R: The “R” stands for radial.
5. Two-digit number (15): This number is the wheel or rim diameter in inches.
6. Two- or three-digit number (95): This number is the tire’s load index. It is a measurement of how much weight each tire can support. You may not find this information on all tires because it is not required by law.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.

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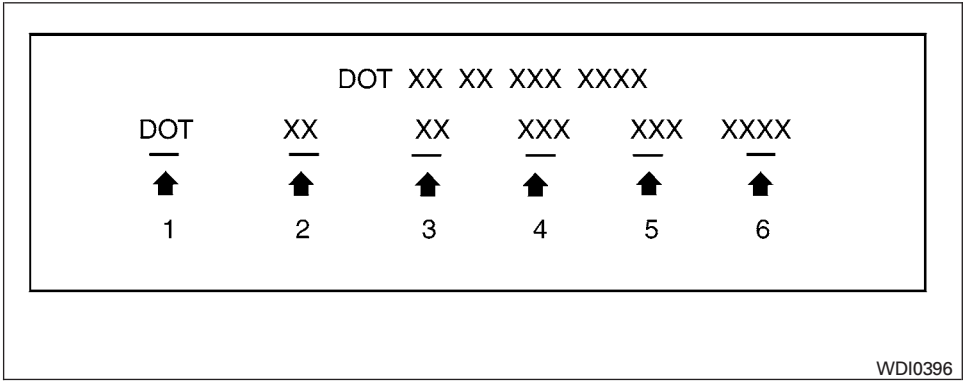

Example

② TIN (Tire Identification Number) for a new tire (example: DOT XX XX XXX XXXX)

1. DOT: Abbreviation for the “Department Of Transportation”. The symbol can be placed above, below or to the left or right of the Tire Identification Number.
2. Two-digit code: Manufacturer’s identification mark.
3. Two-digit code: Tire size.
4. Three-digit code: Tire type code (Optional).
5. Three-digit code: Date of Manufacture.
6. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003. If these numbers are missing then look on the other sidewall of the tire.

③ Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester and others.

④ Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

⑤ Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

⑥ Term of “tubeless” or “tube type”

Indicates whether the tire requires an inner tube (“tube type”) or not (“tubeless”).

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⑦ The word “radial”

The word “radial” is shown if the tire has radial structure.

⑧ Manufacturer or brand name

Manufacturer or brand name is shown.

Other Tire-related Terminology

In addition to the many terms that are defined throughout this section, Intended Outboard Sidewall is (1) the sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (2) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

TYPES OF TIRES

⚠WARNING

- **When changing or replacing tires, be sure all four tires are of the same type (i.e., Summer, All Season or Snow) and construction. A NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability.**
- **Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

All season tires

NISSAN specifies All Season tires on some models to provide good performance all year, including snowy and icy road conditions. All Season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than All Season tires and may be more appropriate in some areas.

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Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating “M&S” on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of SNOW tires or ALL SEASON tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing

studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

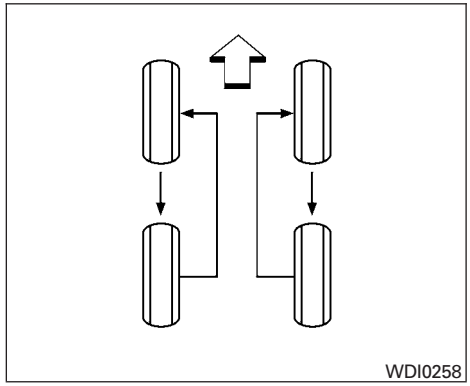
TIRE CHAINS

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE class "S" chains.** Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tire size. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Tire chains must be installed only on the rear wheels and not on the front wheels.

Do not use tire chains on dry roads. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

Use only the 2WD range when driving on clear paved roads.



CHANGING WHEELS AND TIRES

Tire rotation

NISSAN recommends rotating the tires every 5,000 miles (8,000 km).

For additional information, refer to "Flat tire" in the "In case of emergency" section in this manual for tire replacing procedures.

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

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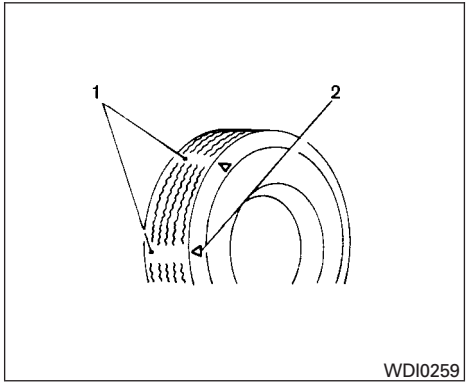
Wheel nut tightening torque:

98 ft-lb (133 N·m)

The wheel nuts must be kept tightened to specifications at all times. It is recommended that wheel nuts be tightened to specification at each tire rotation interval.

⚠WARNING

- **After rotating the tires, check and adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**
- **Do not include the spare tire in the tire rotation.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**



Tire wear and damage

1. Wear indicator
2. Location mark

⚠WARNING

- **Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.**
- **The original tires have built-in tread wear indicators. When the wear indicators are visible, the tire(s) should be replaced.**
- **Tires degrade with age and use. Have tires, including the spare, over 6 years old checked by a qualified technician because some tire damage may not be obvious. Replace the tires as necessary to prevent tire failure and possible personal injury.**
- **Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, contact a NISSAN dealer.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

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Replacing wheels and tires

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped. Recommended types and sizes are shown in “Wheels and tires” in the “Technical and consumer information” section of this manual.

⚠ WARNING

- **The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, VDC system, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.**
- **If your vehicle was originally equipped with 4 tires that were the same size and you are only replacing 2 of the 4 tires, install the new tires on the rear axle. Placing new tires on the front axle may cause loss of vehicle control in some driving conditions and cause an accident and personal injury.**
- **If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics, affect the VDC system and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. Refer to “Wheels and tires” in the “Technical and consumer information” section of this manual for wheel off-set dimensions.**
- **When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tires is not recommended.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

4x4 Four-wheel drive models

⚠ CAUTION

Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the transmission, transfer case and differential gears.

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If excessive tire wear is found, it is recommended that all four tires be replaced with tires of the same size, brand, construction and tread pattern. The tire pressure and wheel alignment should also be checked and corrected as necessary. Contact a NISSAN dealer.

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Care of wheels

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- NISSAN recommends waxing the road wheels to protect against road salt in areas where it is used during winter.

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9 Technical and consumer information

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RECOMMENDED FLUIDS/ LUBRICANTS AND CAPACITIES

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure described in the "Maintenance and do-it-yourself" section to determine the proper refill capacity.

		Capacity (Approximate)			Recommended Fluids and Lubricants
		US measure	Imp measure	Liter	
Fuel		21-1/8 gal	17-5/8 gal	80 L	• For additional information, refer to "Recommended fuel" in this section.
Engine oil		Drain and refill			• For additional information, refer to "Changing engine oil" in the "Maintenance and do-it-yourself" section.
QR25DE	With oil filter change	4-7/8 qt	4 qt	4.6 L	• Genuine NISSAN engine oil or equivalent • Engine oil with API Certification Mark • Viscosity SAE 5W-30 • For additional information, refer to "Engine oil and oil filter recommendations" in this section. • As an alternative to this recommended oil, SAE 5W-30 or SAE 10W-30 conventional petroleum based oils may be used and meet all specifications and requirements necessary to maintain the New Vehicle Limited Warranty.
	Without oil filter change	4-1/2 qt	3-3/4 qt	4.3 L	
VQ40DE	With oil filter change	5-3/8 qt	4-1/2 qt	5.1 L	• Genuine NISSAN engine oil or equivalent • Engine oil with API Certification Mark • Viscosity SAE 5W-30 • For additional information, refer to "Engine oil and oil filter recommendations" in this section. • NISSAN recommends the use of Genuine NISSAN Ester Oil, available at a NISSAN dealer.
	Without oil filter change	5-1/8 qt	4-1/4 qt	4.8 L	
Cooling system					
QR25DE	With reservoir	2-1/2 gal	2-1/8 gal	9.4 L	• Genuine NISSAN Blue Long Life Antifreeze/coolant (pre-diluted) or equivalent
VQ40DE	With reservoir	2-3/4 gal	2-1/4 gal	10.2 L	
Manual transmission gear oil	5 M/T	3-1/8 qt	2-1/2 qt	2.9 L	• API GL-4 viscosity SAE 75W-85 may be used as a temporary replacement for Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85. However, NISSAN recommends the use of Genuine NISSAN gear oil, available at a NISSAN dealer.
	6 M/T 4X2	4-1/4 qt	3-1/2 qt	4.0 L	
	6 M/T 4X4	4-1/2 qt	3-3/4 qt	4.2 L	

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	Capacity (Approximate)			Recommended Fluids and Lubricants
	US measure	Imp measure	Liter	
Automatic transmission fluid	Refill to the proper level according to the instructions in the “Maintenance and do-it-yourself” section.			▪ Genuine NISSAN Matic S ATF ▪ If Genuine NISSAN Matic S ATF is not available, Genuine NISSAN Matic J ATF may also be used. Using automatic transmission fluid other than Genuine NISSAN Matic S ATF or Genuine NISSAN Matic J ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the NISSAN new vehicle limited warranty.
Power steering fluid (PSF)				▪ Genuine NISSAN PSF or equivalent. ▪ DEXRON™ VI type ATF may also be used.
Brake and clutch (if so equipped) fluid				▪ Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 ▪ Available in mainland USA through a NISSAN dealer.
Multi-purpose grease	—	—	—	▪ NLGI No. 2 (Lithium Soap base)
Air conditioning system refrigerant	—	—	—	▪ HFC-134a (R-134a) ▪ For additional information, refer to “Air conditioner specification label” in this section.
Air conditioning system oil	—	—	—	▪ Genuine NISSAN A/C System Oil Type R or equivalent ▪ For additional information, refer to “Air conditioner specification label” in this section.
Transfer fluid	2-1/8 qt	1-3/4 qt	2.0 L	▪ Genuine NISSAN Matic D ATF recommended ▪ Using fluid other than Genuine NISSAN Matic D ATF will cause deterioration in driveability and transfer durability, and may damage the transfer, which is not covered by the NISSAN new vehicle limited warranty.
Front final drive oil	1-3/4 pt	1-1/2 pt	0.85 L	▪ Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5 ▪ Viscosity SAE 80W-90 ▪ For hot climates, Viscosity SAE 90 is suitable for ambient temperatures above 0° (32°F)

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	Capacity (Approximate)			Recommended Fluids and Lubricants
	US measure	Imp measure	Liter	
Rear final drive oil (except 6 speed M/T or E-Lock vehicles)	3-3/8 pt	2-7/8 pt	1.6 L	▪ API GL-5 synthetic gear oil, Viscosity SAE 75W-90 ▪ See a NISSAN dealer for service for synthetic oil.
Rear final drive oil (6 speed M/T or E-Lock vehicles)	4-1/4 pt	3-1/2 pt	2.0 L	▪ Genuine NISSAN differential oil synthetic 75W-140 or API GL-5 synthetic gear oil ▪ Viscosity SAE 75W-140 ▪ See a NISSAN dealer for service for synthetic oil.
Windshield-washer fluid	1-1/4 gal	1 gal	4.5 L	▪ Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent

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RECOMMENDED FUEL

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠ CAUTION

- **Only vehicles with the E-85 filler door label can operate on E-85. Fuel system or other damage can occur if E-85 is used in vehicles that are not designed to run on E-85.**
- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the NISSAN new vehicle limited warranty.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**

Gasoline specifications

NISSAN recommends using gasoline that meets the World-Wide Fuel Charter (WWFC) specifications where it is available. Many of the automobile manufacturers developed this specification to improve emission control system and vehicle performance. Ask your service station manager if the gasoline meets the WWFC specifications.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. NISSAN supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, MTBE and methanol with or without advertising their presence. NISSAN does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your NISSAN cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- **The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.**
- **If an oxygenate-blend other than methanol blend is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)**
- **E-15 fuel contains more than 10% oxygenate. E-15 fuel will adversely affect the emission control devices and systems of the vehicle and should not be used. Damage caused by such fuel is not covered by the NISSAN new vehicle limited warranty.**

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- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in NISSAN vehicles.**

If any driveability problems such as engine stalling and difficult hot-starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

E–15 fuel

E-15 fuel is a mixture of approximately 15% fuel ethanol and 85% unleaded gasoline. E-15 can only be used in vehicles designed to run on E-15 fuel. Do not use E-15 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified with small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

E–85 fuel

E-85 fuel is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline. E-85 can only be used in a Flexible Fuel Vehicle (FFV). Do not use E-85 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

Aftermarket fuel additives

NISSAN does not recommend the use of any aftermarket fuel additives (for example, fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvents or similar ingredients that can be harmful to the fuel system and engine.

Octane rating tips

Using unleaded gasoline with an octane rating lower than recommended can cause persistent, heavy “spark knock.” (“Spark knock” is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, have a NISSAN dealer correct the condition. Failure to correct the condition is misuse of the vehicle, for which NISSAN is not responsible.

Incorrect ignition timing may result in spark knock, after-run and/or overheating, which may cause excessive fuel consumption or engine damage. If any of the above symptoms are encountered, have your vehicle checked at a NISSAN dealer.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is not a cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.

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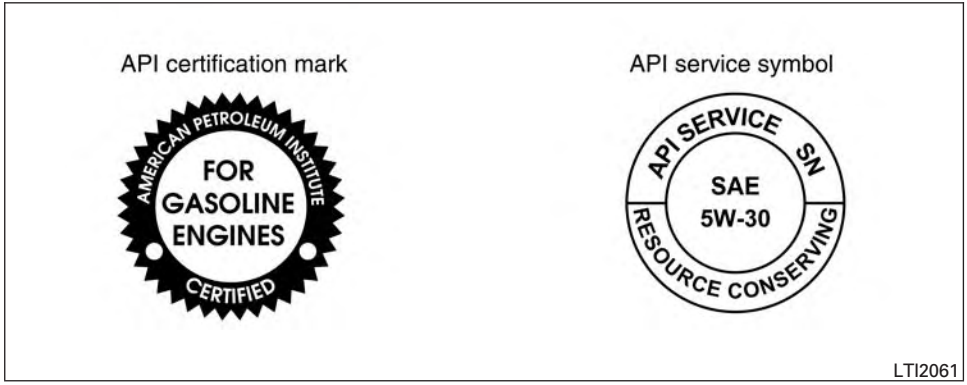

ENGINE OIL AND OIL FILTER RECOMMENDATIONS

Selecting the correct oil

It is essential to choose the correct grade, quality and viscosity engine oil to ensure satisfactory engine life and performance. Refer to “Recommended fluids/lubricants and capacities” in this section. NISSAN recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important to select the engine oil viscosity based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new NISSAN vehicle is equipped with a high-quality Genuine NISSAN oil filter. When replacing, use a Genuine NISSAN oil filter or its equivalent for the reason described in “Change intervals.”

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Using engine oil and filters that are not of the specified quality, or exceeding recommended oil and filter change intervals could reduce engine life. Damage to the engine caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the NISSAN new vehicle limited warranty.

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Your engine was filled with a high-quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle.

Operation under the following conditions may require more frequent oil and filter changes:

- repeated short distance driving at cold outside temperatures
- driving in dusty conditions
- extensive idling
- towing a trailer
- stop and go commuting

For additional information, refer to the “NISSAN Service and Maintenance Guide” for the maintenance schedule.

AIR CONDITIONER SYSTEM (if so equipped) REFRIGERANT AND OIL RECOMMENDATIONS

The air conditioner system in your NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the oil, NISSAN A/C system oil Type R or the exact equivalents.

⚠ CAUTION

The use of any other refrigerant or oil will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your NISSAN vehicle does not harm the earth’s ozone layer. Although this refrigerant does not affect the earth’s atmosphere, certain government regulations require the recovery and recycling of any refrigerant during automotive air conditioner system service. A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioner system refrigerant.

Contact a NISSAN dealer when servicing your air conditioner system.

Information Provided by: DEALER E-PROCESS

ENGINE

Model		QR25DE	VQ40DE
Type		Gasoline, 4-cycle, DOHC	Gasoline, 4-cycle, DOHC
Cylinder arrangement		4-cylinder in-line	6-cylinder, V-block, Slanted at 60°
Bore x Stroke	in (mm)	3.5 x 3.9 (89.0 x 100.0)	3.760 x 3.622 (95.5 x 92)
Displacement	cu in (cm^3)	151.82 (2,488)	241.30 (3,954)
Firing order		1–3–4–2	1–2–3–4–5–6
Idle speed M/T A/T in N (Neutral) position Ignition timing (degree B.T.D.C. at idle speed) CO % at idle		Refer to the “Emission control information label” on the underside of the hood.	
Spark plug	Standard	PLZKAR6A-11	DILFR5A-11
Spark plug gap (Nominal)	in (mm)	0.043 (1.1)	0.043 (1.1)
Camshaft operation		Timing chain	Timing chain

This spark ignition system complies with the Canadian standard ICES-002.

Information Provided by:
DEALER E-PROCESS

WHEELS AND TIRES

Wheel Type	Size	Offset in (mm)
Steel	15 x 6.5JJ	0.79 (20)
Steel	16 x 7JJ	1.18 (30)
Aluminum	16 x 7J	1.18 (30)
Aluminum	18 x 7.5JJ	1.18 (30)
Tires		
		235/75R15
		P265/70R16
		P265/75R16
		P265/60R18
Spare tire		Full size

Information Provided by:
DEALER E-PROCESS

DIMENSIONS AND WEIGHTS

Overall length		
Short wheel base	in (mm)	205.5 (5,220)
Long wheel base	in (mm)	219.4 (5,574)
Overall width	in (mm)	72.8 (1,850)
Overall height		
With roof rack	in (mm)	73.9 (1,878)
Without roof rack		
S and SV I-4 King Cab models (4x2)	in (mm)	68.7 (1,745)
SV (4x2 and 4x4) and Pro-4X (4x4) King Cab models	in (mm)	69.7 (1,770)
Crew Cab models	in (mm)	70.1 (1,780)
Front Track	in (mm)	61.8 (1,570)
Rear Track	in (mm)	61.8 (1,570)
Wheelbase		
Short wheel base	in (mm)	125.9 (3,200)
Long wheel base	in (mm)	139.9 (3,554)
Gross vehicle weight rating	lb (kg)	Refer to the “F.M.V.S.S./C.M.V.S.S. certification label” on the center pillar between the driver’s side front and rear doors.
Gross axle weight rating		
Front	lb (kg)	
Rear	lb (kg)	

Information Provided by:
DEALER E-PROCESS

WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY

When planning to drive your NISSAN vehicle in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

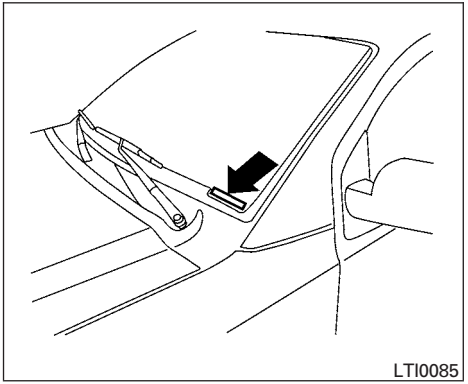
Using fuel with an octane rating that is too low may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

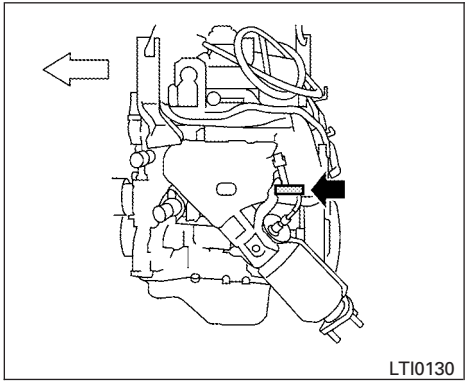
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION


LTI0085

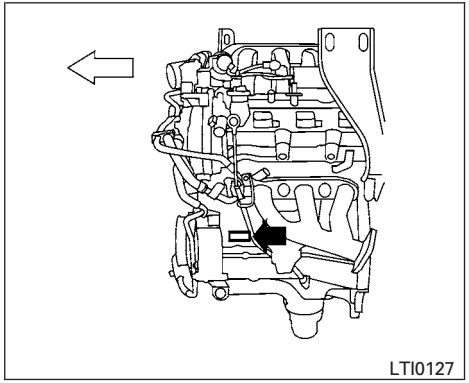
VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

The VIN plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.


LTI0130

QR25DE engine

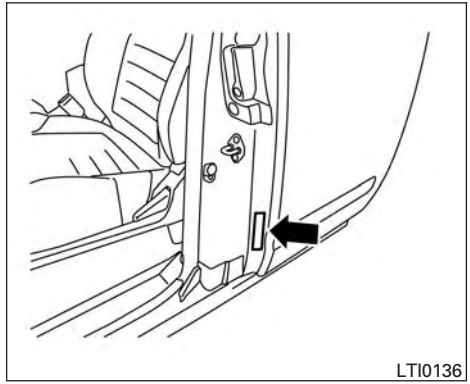
Information Provided by: DEALER E-PROCESS



VQ40DE engine

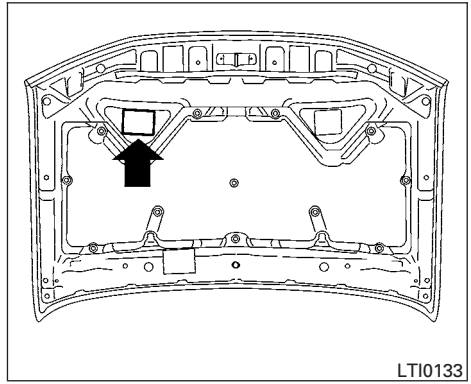
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL

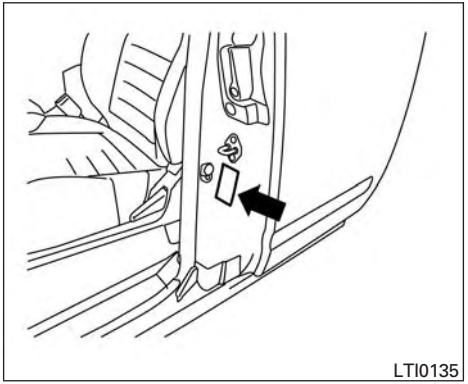
The Federal/Canadian Motor Vehicle Safety Standard (F.M.V.S.S./C.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: (GVWR), (GAWR), month and year of manufacture, (VIN), etc. Review it carefully.



EMISSION CONTROL INFORMATION LABEL

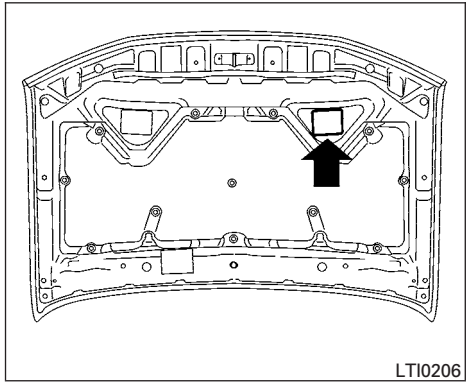
The emission control information label is attached to the underside of the hood as shown.

Information Provided by:
DEALER E-PROCESS



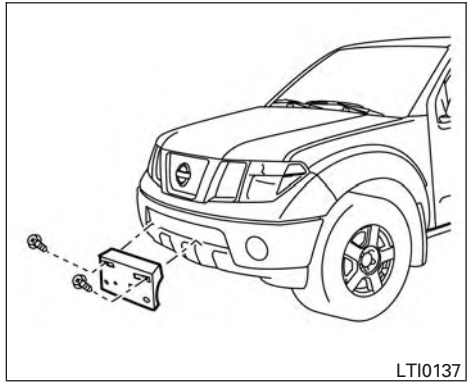
TIRE AND LOADING INFORMATION LABEL

The cold tire pressure is shown on the Tire and Loading Information label. The label is located as shown.



AIR CONDITIONER SPECIFICATION LABEL (if so equipped)

The air conditioner specification label is affixed as shown.



INSTALLING FRONT LICENSE PLATE WITH GROMMETS

Use the following steps to mount the front license plate with grommets:

1. Make holes on the plastic finisher at the location mark (small dimple) using a 0.37 in (9.5 mm) drill. Apply light pressure to the drill. Insert two plastic grommets provided. Install the license plate holder using the two bolts (and washers) provided.

Information Provided by: DEALER E-PROCESS

2. Mount the license plate **using two M6-14 mm bolts.**

License plate bolt tightening torque: 3.8 - 4.7 ft-lb (5.10 - 6.37 N·m)

INSTALLING FRONT LICENSE PLATE WITHOUT GROMMETS

Use the following steps to mount the front license plate without grommets:

1. Make a shallow hole in each plastic finisher at the location mark (small dimple) using a 0.31 in (8 mm) drill. To avoid damaging the threads behind the finisher, apply only light pressure to the drill.
2. Mount the license plate bracket using two **8 mm slotted hex head screws.**

⚠WARNING

- **It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. This information is located on the F.M.V.S.S./C.M.V.S.S. certification label.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle. This information is located on the F.M.V.S.S./C.M.V.S.S. certification label.
- GCWR (Gross Combined Weight rating) - The maximum total weight rating of the vehicle, passengers, cargo, and trailer.

Information Provided by: DEALER E-PROCESS

- Vehicle Capacity Weight, Load limit, Total load capacity - maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
- Cargo capacity - permissible weight of cargo, the subtracted weight of occupants from the load limit.

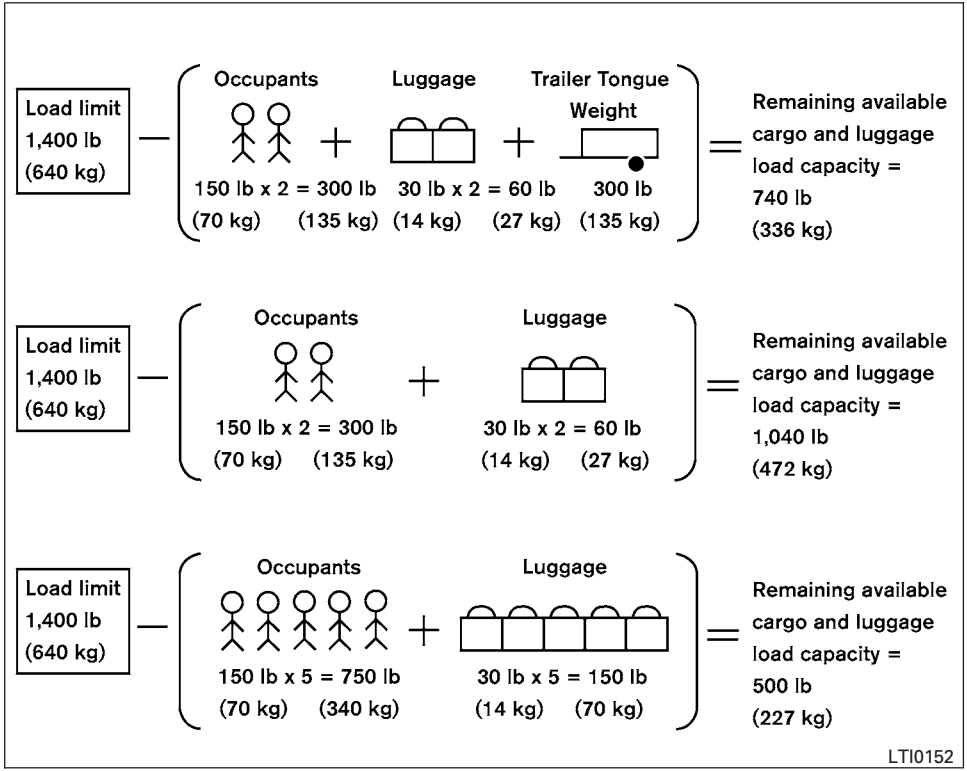
VEHICLE LOAD CAPACITY

Before driving a loaded vehicle, confirm that you do not exceed the GVWR or the GAWR for your vehicle. Both the GVWR and GAWR are located on the F.M.V.S.S./C.M.V.S.S. certification label. Refer to “Measurement of weights” in this section.

Do not exceed the load limit of your vehicle shown as “The combined weight of occupants and cargo” on the Tire and Loading Information label. Do not exceed the number of occupants shown as “Seating Capacity” on the Tire and Loading Information label.

To get “the combined weight of occupants and cargo”, add the weight of all occupants, then add the total luggage weight. Examples are shown in the following illustration.

Information Provided by:
DEALER E-PROCESS



Example

Steps for determining correct load limit

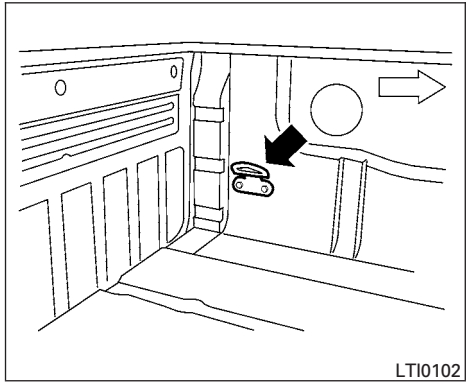
1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX lbs or XXX kg” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX lbs or XXX kg.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1,400-750 (5 X 150) = 650 lbs) or (640-340 (5 X 70) = 300 kg.)

Information Provided by:
DEALER E-PROCESS

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Before driving a loaded vehicle, confirm that you do not exceed the GVWR or the GAWR for your vehicle. For additional information, refer to “Measurement of weights” in this section.

Also check tires for proper inflation pressures. For additional information, refer to the “Tire and Loading Information label” in the Maintenance and do-it-yourself” section of this manual.


LTI0102

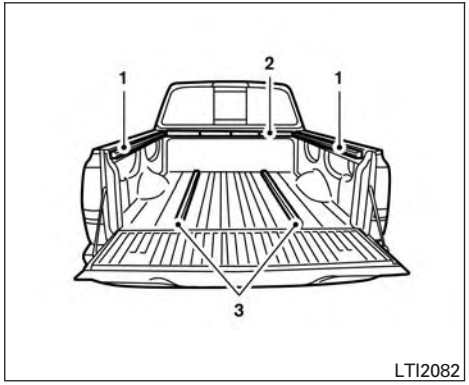
SECURING THE LOAD

For your convenience, tie down hooks (if so equipped) are placed at each corner of the truck box. These may be used to help secure cargo loaded into the truck box.

⚠ WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**

Information Provided by: DEALER E-PROCESS



UTILI-TRACK™ CHANNEL SYSTEM (if so equipped)

1. Side channels
2. Header channel
3. Header channel

⚠WARNING

- **Properly install and tighten the tie-down cleats into the Utili-track™ channel system. Also, do not attach any rope or straps directly to the channel. Failure to properly install the tie-down cleats or attaching ropes or straps directly to the channel can cause the cargo to become unsecured. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**

The Utili-track™ channel system allows you to move tie-down clamps in the bed to the best location to secure a load.

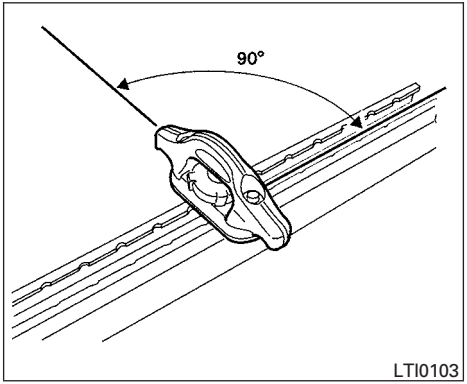
The tie-down cleats must be installed so the clamp is properly seated in the notches in the rail. If the tie-down cleat is not seated in the notches, it will not be flush with the rail and cannot be properly tightened. The bolt in the center of the cleat must be tightened hand tight (20 – 40 in-lbs)

Check the tightness of the tie-down cleat periodically during a trip to make sure the center bolt has not become loose.

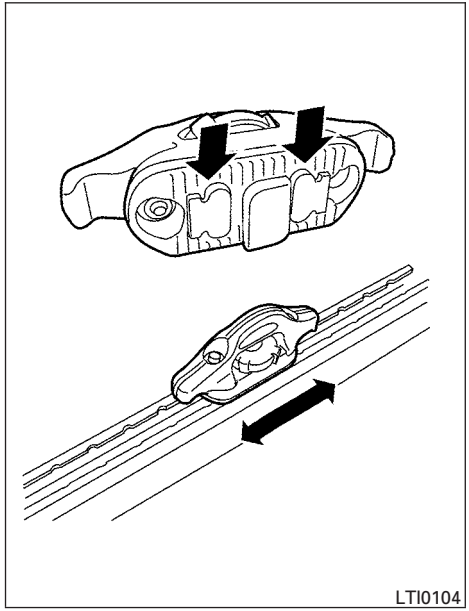
Install the tie-down cleat as follows:

1. Remove the side channels by sliding them out the back of the truck bed. Properly store the side channels.
2. Loosen the center bolt completely.

Information Provided by: DEALER E-PROCESS

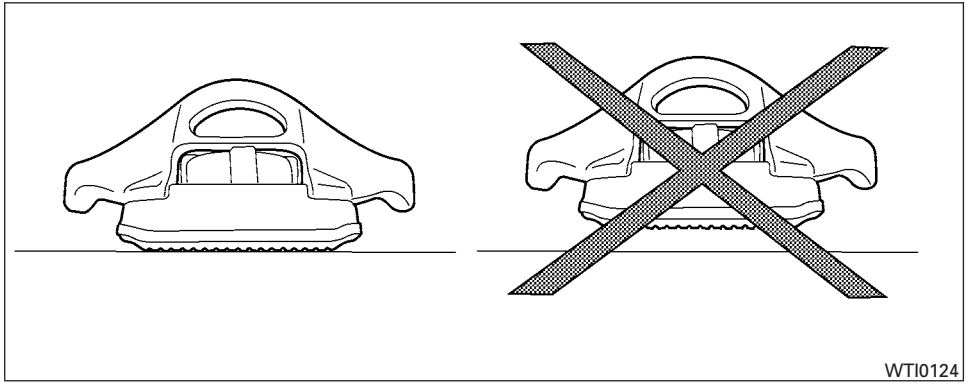


3. Insert the cleat into the channel perpendicular to the channel as shown. Then rotate the cleat clockwise 90° and slide it to the desired location.



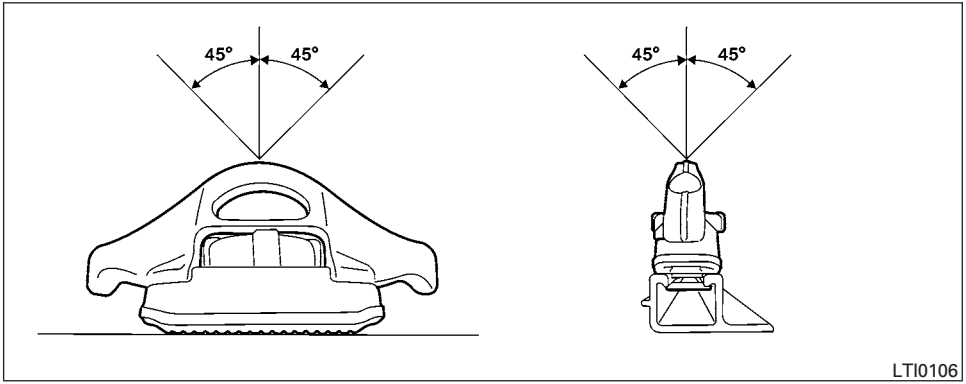
4. Position the cleat so the nubs on the bottom fully seat into the channel detents.

Information Provided by:
DEALER E-PROCESS



5. There should be no gap between the bottom of the cleat and the top of the channel. Tighten the center bolt hand tight (20-40 in-lbs).

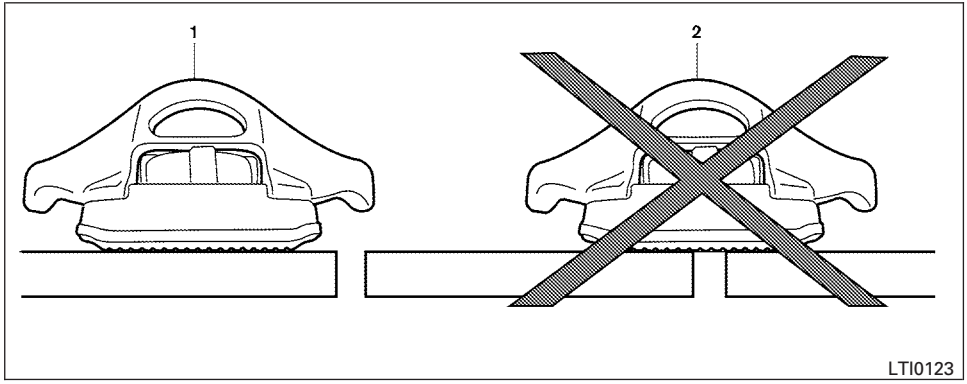
Information Provided by:
DEALER E-PROCESS



⚠CAUTION

- **Install only one cleat per section of channel.**
- **Applying loads at angles to the cleats greater then 45° or loads greater than 150 lbs. (header and floor channels) or 200 lbs. (side channels) may cause damage to the channel or bed.**

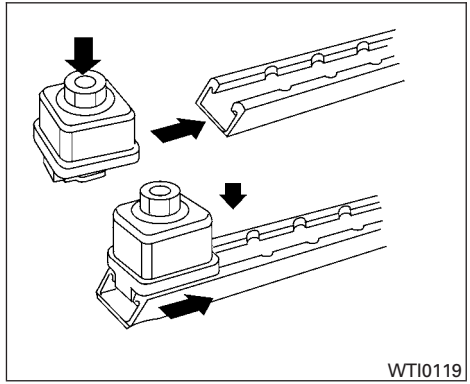
Information Provided by:
DEALER E-PROCESS



1 correct installation, 2 incorrect installation

⚠ WARNING

Do not install accessories over the gap between the front and rear side channels. Doing this could affect the rear structure in certain rear impacts, which could result in serious injury.



⚠ CAUTION

Properly secure all cargo with ropes or straps to prevent it from sliding or shifting. Use the channel end stoppers to help secure items in the channels from sliding off the end of the truck bed.

Channel end stoppers (if so equipped)

The channel end stoppers should be used to help prevent accessories installed in the channels from sliding or shifting off the end of the truck bed.

They must be installed so they are properly seated in the detents in the channel.

Information Provided by:
DEALER E-PROCESS

Install the channels end stoppers as follows:

1. Remove the channel protectors by sliding them out the back of the truck bed. Properly store the channel protectors.
2. Loosen the bolt on the center of the end stopper with the provided wrench and insert it into the channel.
3. Position the end stopper to the desired location on the channel so the nubs on the bottom of the end stopper fully seat into the channel detents.
4. Tighten the bolt on the center of the end stopper with the provided wrench.

LOADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S./C.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**
- **Overloading not only can shorten the life of your vehicle and the tire, but can also cause unsafe vehicle handling and longer braking distances. This may cause a premature tire failure which could result in a serious accident and personal injury. Failures caused by overloading are not covered by the vehicle's warranty.**

CREW CAB MODELS

Crew Cab short wheel base models should not be used to carry a slide-in camper.

KING CAB MODELS

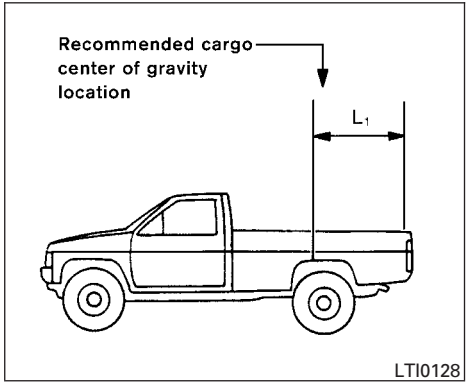
This information is provided for you to properly install a slide-in camper and is based on the National Highway Traffic Safety Administration regulations. It is recommended that, before installing the camper, you carefully read the following information and ensure that the camper meets the specifications.

This information may not apply to some Canada model vehicles.

SPECIAL BODY VEHICLES

Some vehicles are equipped with commercial or camper bodies. However, this Owner's Manual does not cover these options. For additional information, refer to the body manufacturer's instruction manual.

Information Provided by: DEALER E-PROCESS



LOCATION FOR CENTER OF GRAVITY

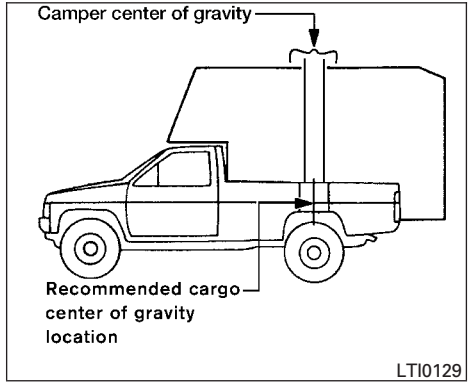
The illustration indicates the recommended cargo center of gravity location.

King Cab:

L1 = 41.5 in (1,054 mm)

⚠WARNING

Improper loading may be dangerous. If a load is too far back, it can affect handling characteristics. If a load is too far forward, the front axle may be overloaded.



When the truck is used to carry a slide-in camper, the total cargo load of the truck consists of the camper manufacturer's weight figure, plus:

- the weight of installed additional camper equipment not included in the camper manufacturer's weight figure,
- the weight of camper cargo,
- and the weight of occupants in the camper.

The total cargo load should not exceed the truck's pay load weight rating and the camper's center of gravity should fall within the truck's recommended center of gravity location when installed.

⚠WARNING

Overloading or improper loading can adversely affect vehicle handling, braking and performance and may lead to accidents.

VEHICLE LOAD WEIGHT CAPACITY

The vehicle payload weight capacity shown on the Tire and Loading Information label, refer to "Tire and Loading Information label" in this section, indicates the maximum total weight of passengers, optional equipment (air conditioning, trailer hitch, etc) and cargo that your vehicle is designed to carry.

Before driving a loaded vehicle, confirm that you do not exceed the GVWR or the GAWR for your vehicle. Refer to ''Vehicle Loading Information'' in this section for details.

Also check tires for proper inflation pressures. Refer to the Tire and Loading Information label.

Information Provided by:
DEALER E-PROCESS

MEASUREMENT OF WEIGHTS

Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the vehicle is loaded, drive to a scale and weigh the front and the rear wheels separately to determine axle loads. Individual axle loads should not exceed either of the GAWR. The total of the axle loads should not exceed the GVWR. These ratings are given on the vehicle certification label. If weight ratings are exceeded, move or remove items to bring all weights below the ratings.

⚠ WARNING

Overloading or improper loading of a trailer and its cargo can adversely affect vehicle handling, braking and performance and may lead to accidents.

⚠ CAUTION

- **Do not tow a trailer or haul a heavy load for the first 500 mile (805 km). Your engine, axle or other parts could be damaged.**
- **For the first 500 miles (805 km) that you tow a trailer, do not drive over 50 mph (80 km/h) and do not make starts at full throttle. This helps the engine and other parts of your vehicle wear in at the heavier loads.**

Your new vehicle was designed to be used primarily to carry passengers and cargo. Remember that towing a trailer places additional loads on your vehicle's engine, drive train, steering, braking and other systems.

A NISSAN Towing Guide (U.S. only) is available on the website at www.nissanusa.com. This guide includes information on trailer towing capability and the special equipment required for proper towing.

MAXIMUM LOAD LIMITS

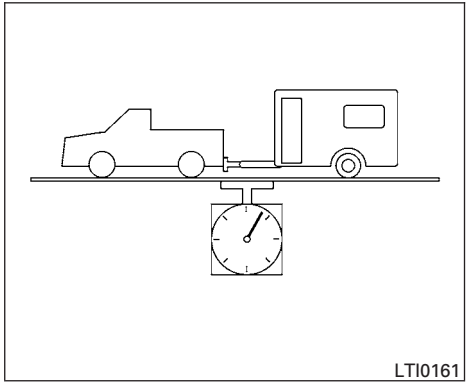
Maximum trailer loads

Never allow the total trailer load to exceed the value specified in the "Towing Load/Specification" chart found in this section. The total trailer load equals trailer weight plus its cargo weight.

- **When towing a trailer load of 3,500 lbs. (1,587 kg) or more, trailers with a brake system MUST be used.**

The maximum Gross Combined Weight Rating (GCWR) should not exceed the value specified in the following "Towing Load/Specification" chart.

Information Provided by: DEALER E-PROCESS


LTI0161

The GCWR equals the combined weight of the towing vehicle (including passengers and cargo) plus the total trailer load. Towing loads greater than these or using improper towing equipment could adversely affect vehicle handling, braking and performance.

The ability of your vehicle to tow a trailer is not only related to the maximum trailer loads, but also the places you plan to tow. Tow weights appropriate for level highway driving may have to be reduced for low traction situations (for example, on slippery boat ramps).

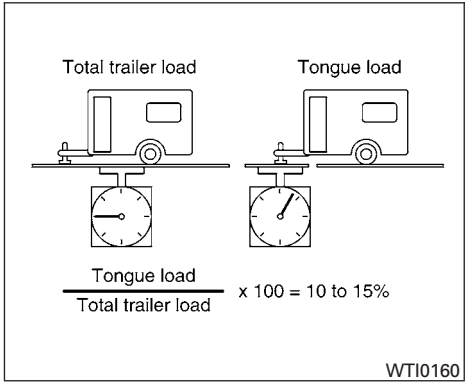
Temperature conditions can also affect towing. For example, towing a heavy trailer in high outside temperatures on graded roads can affect engine performance and cause overheating. The engine protection mode, which helps reduce the chance of engine damage, could activate and automatically decrease engine power. Vehicle speed may decrease under high load. Plan your trip carefully to account for trailer and vehicle load, weather and road conditions.

⚠ WARNING

Overheating can result in reduced engine power and vehicle speed. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If the vehicle cannot maintain a safe driving speed, pull to the side of the road in a safe area. Allow the engine to cool and return to normal operation. For additional information, refer to "If your vehicle overheats" in the "In case of emergency" section of this manual.

⚠ CAUTION

Vehicle damage resulting from improper towing procedures is not covered by NISSAN warranties.



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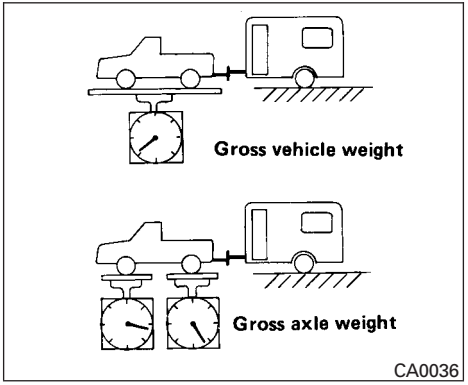
Tongue load

When using a weight carrying or a weight distributing hitch, keep the tongue load between 10 - 15% of the total trailer load or use the trailer tongue load specified by the trailer manufacturer. The tongue load must be within the maximum tongue load limits shown in the following "Towing Load/Specification" chart. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.

Information Provided by: DEALER E-PROCESS



Maximum Gross Vehicle Weight (GVW)/maximum Gross Axle Weight (GAW)

The GVW of the towing vehicle must not exceed the Gross Vehicle Weight Rating (GVWR) shown on the F.M.V.S.S./C.M.V.S.S. certification label. The GVW equals the combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. In addition, front or rear GAW must not exceed the Gross Axle Weight Rating (GAWR) shown on the F.M.V.S.S./C.M.V.S.S. certification label.

Towing capacities are calculated assuming a base vehicle with driver and any options required to achieve the rating. Additional passengers, cargo and/or optional equipment, such as the trailer hitch, will add weight to the vehicle and reduce your vehicle's maximum towing capacity and trailer tongue load.

The vehicle and trailer need to be weighed to confirm the vehicle is within the GVWR, Front GAWR, Rear GAWR, Gross Combined Weight Rating (GCWR) and Towing capacity.

All vehicle and trailer weights can be measured using platform type scales commonly found at truck stops, highway weigh stations, building supply centers or salvage yards.

To determine the available payload capacity for tongue load, use the following procedure.

1. Locate the GVWR on the F.M.V.S.S./C.M.V.S.S. certification label.
2. Weigh your vehicle on the scale with all of the passengers and cargo that are normally in the vehicle when towing a trailer.
3. Subtract the actual vehicle weight from the GVWR. The remaining amount is the available maximum tongue load.

To determine the available towing capacity, use the following procedure.

1. Find the GCWR for your vehicle on the "Towing Load/Specification" chart found in this section.
2. Subtract the actual vehicle weight from the GCWR. The remaining amount is the available maximum towing capacity.

To determine the Gross Trailer Weight, weigh your trailer on a scale with all equipment and cargo, that are normally in the trailer when it is towed. Make sure the Gross Trailer Weight is not more than the Gross Trailer Weight Rating shown on the trailer and is not more than the calculated available maximum towing capacity.

Also weigh the front and rear axles on the scale to make sure the Front Gross Axle Weight and Rear Gross Axle Weight are not more than Front Gross Axle Weight and Rear Gross Axle Weight on the F.M.V.S.S./C.M.V.S.S. certification label. The cargo in the trailer and vehicle may need to be moved or removed to meet the specified ratings.

Information Provided by:
DEALER E-PROCESS

Example:

- Gross Vehicle Weight (GVW) as weighed on a scale- including passengers, cargo and hitch - 5,185 lb. (2352 kg).
- Gross Vehicle Weight Rating (GVWR) from F.M.V.S.S./C.M.V.S.S. certification label - 5,815 lb. (2638 kg).
- Gross Combined Weight Rating (GCWR) from “Towing Load/Specification” chart - 11,133 lb. (5050 kg).
- Maximum Trailer towing capacity from “Towing Load/Specification” chart - 6,100 lb. (2767 kg).

5,815 lb. (2638 kg)	GVWR
– 5,185 lb. (2352 kg)	GVW
= 630 lb. (286 kg)	Available for tongue weight
11,133 lb. (5050 kg)	GCWR
– 5,185 lb. (2352 kg)	GVW
= 5,948 lb. (2698 kg)	Capacity available for towing
630 lb. (286 kg)	Available tongue weight
/ 5,948 lb. (2698 kg)	Available capacity
=	10 % tongue weight

The available towing capacity may be less than the maximum towing capacity due to the passenger and cargo load in the vehicle.

Remember to keep trailer tongue weight between 10 - 15 percent of the trailer weight or within the trailer tongue load specification recommended by the trailer manufacturer. If the tongue load becomes excessive, rearrange the cargo to obtain the proper tongue load. Do not exceed the maximum tongue weight specification shown in the “Towing load/specification” chart even if the calculated available tongue weight is greater than 15 percent. If the calculated tongue weight is less than 10 percent, reduce the total trailer weight to match the available tongue weight.

Always verify that available capacities are within the required ratings.

Trailer frontal area

⚠ CAUTION

Exceeding the maximum trailer frontal area specification may exceed the towing capacity of the vehicle. This may affect the towing performance and lead to vehicle damage.

The trailer frontal area affects the towing load of a trailer. The frontal area is the total area of the vehicle and trailer that is affected by air resistance while towing. Do not exceed the maximum trailer frontal area specification shown in the ″Towing Load/Specification” chart. The frontal area can be determined by multiplying the width of the trailer by the height of the trailer. For example, a trailer that is 8 feet wide by 6 feet tall has a trailer frontal area of 48 square feet.

Information Provided by: DEALER E-PROCESS

TOWING LOAD/SPECIFICATION

	King Cab 2WD (4 cyl)	King Cab 2WD (6 cyl)	King Cab 4WD (6 cyl)	Crew Cab 2WD	Crew Cab SL	Crew Cab 4WD
Maximum Towing Capacity*1, *2, *3	3,500 lb. (1,588 kg)	6,500 lb. (2,949 kg)	6,300 lb. (2,858 kg)	6,300 lb. (2,828 kg)	6236 lb. (2,828 kg)	6,100 lb. (2,767 kg)
Maximum Tongue Load*2, *3	350 lb. (158 kg)	650 lb. (295 kg)	630 lb. (285 kg)	630 lb. (285 kg)	624 lb. (283 kg)	610 lb. (276 kg)
Maximum Gross Combined Weight Rating	7,936 lb. (3,600 kg)	11,230 lb. (5,094 kg)	11,230 lb. (5,094 kg)	11,230 lb. (5,094 kg)	6,236 lb. (2,828 kg)	11,230 lb. (5,094 kg)
Maximum trailer frontal area	30sq feet (2.78 sq meters)					

*1:

- The towing capacity is calculated using the SAE International SAE J2807 test method. Additional passengers, cargo and/or optional equipment will add weight to the vehicle and reduce your vehicle's maximum towing capacity.
- All towing above 1,000 lb (454 kg) requires the use of trailer brakes.
- NISSAN recommends the use of a tandem axle trailer whenever towing above 3,000 lb (1,361 kg).

*2: The maximum towing capacity when using the Genuine NISSAN step bumper as a ball mount is 3,500 lb. (1,588 kg) and 350 lb. (158 kg) tongue load.

*3: Use of a weight-distributing hitch system is recommended when towing over 5,000 lbs.

Information Provided by:
DEALER E-PROCESS

TOWING SAFETY

Trailer hitch

Your vehicle may be equipped with an optional trailer tow package. The trailer tow package includes a receiver-type frame mounted hitch. This hitch is rated for the maximum towing capacity of this vehicle when the proper towing equipment is used. Choose a proper ball mount and hitch ball that is rated for the trailer to be towed. Genuine NISSAN ball mounts and hitch balls are available from your NISSAN dealer.

If your vehicle is not equipped with the optional trailer tow package, check the towing capacity of your bumper hitch or receiver-type frame mounted hitch. Choose a proper hitch for your vehicle and trailer. A Genuine NISSAN trailer hitch is available from your NISSAN dealer. Make sure the trailer hitch is securely attached to the vehicle to help avoid personal injury or property damage due to sway caused by crosswinds, rough road surfaces or passing trucks.

⚠WARNING

Trailer hitch components have specific weight ratings. Your vehicle may be capable of towing a trailer heavier than the weight rating of the hitch components. Never exceed the weight rating of the hitch components. Doing so can cause serious personal injury or property damage.

Hitch ball

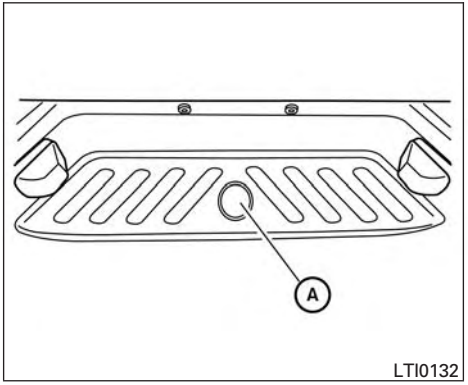
Choose a hitch ball of the proper size and weight rating for your trailer:

- The required hitch ball size is stamped on most trailer couplers. Most hitch balls also have the size printed on the top of the ball.
- Choose the proper class hitch ball based on the trailer weight.
- The diameter of the threaded shank of the hitch ball must be matched to the ball mount hole diameter. The hitch ball shank should be no more than 1/16” smaller than the hole in the ball mount.
- The threaded shank of the hitch ball must be long enough to be properly secured to the ball mount. There should be at least 2 threads showing beyond the lock washer and nut.

Ball mount

The hitch ball is attached to the ball mount and the ball mount is inserted into the hitch receiver. Choose a proper class ball mount based on the trailer weight. Additionally, the ball mount should be chosen to keep the trailer tongue level with the ground.

Information Provided by: DEALER E-PROCESS



Bumper towing

The Genuine NISSAN step bumper has provisions to install a trailer hitch ball and is designed to tow trailers of a maximum weight of 3,500 lb (1,588 kg).

To install a trailer hitch ball cut out the circle in the center of the step bumper Ⓐ, then remove it to install the trailer hitch ball.

Weight carrying hitches

A weight carrying or “dead weight” ball mount is one that is designed to carry the whole amount of tongue weight and gross weight directly on the ball mount and on the receiver.

Weight distribution hitch

This type of hitch is also called a “load-leveling” or “equalizing” hitch. A set of bars attach to the ball mount and to the trailer to distribute the tongue weight (hitch weight) of your trailer. Many vehicles can’t carry the full tongue weight of a given trailer, and need some of the tongue weight transferred through the frame and pushing down on the front wheels. This gives stability to the tow vehicle.

A weight-distributing hitch system (Class IV) is recommended if you plan to tow trailers with a maximum weight over 5,000 lbs (2,268 kg). Check with the trailer and towing equipment manufacturers to determine if they recommend the use of a weight-distributing hitch system.

NOTE:

A weight-distributing hitch system may affect the operation of trailer surge brakes. If you are considering use of a weight-distributing hitch system with a surge brake-equipped trailer, check with the surge brake, hitch or trailer manufacturer to determine if and how this can be done.

Follow the instructions provided by the manufacturer for installing and using the weight-distributing hitch system.

General set-up instructions are as follows:

1. Park unloaded vehicle on a level surface. With the ignition on and the doors closed, allow the vehicle to stand for several minutes so that it can level.
2. Measure the height of a reference point on the front and rear bumpers at the center of the vehicle.
3. Attach the trailer to the vehicle and adjust the hitch equalizers so that the front bumper height is within 0 - .5 inches (0 – 13 mm) of the reference height measured in step 2. The rear bumper should be no higher than the reference height measured in step 2.

⚠ WARNING

Properly adjust the weight distributing hitch so the rear of the bumper is no higher than the measured reference height when the trailer is attached. If the rear bumper is higher than the measured reference height when loaded, the vehicle may handle unpredictably which could cause a loss of vehicle control and cause serious personal injury or property damage.

Information Provided by:
DEALER E-PROCESS

Sway control device

Sudden maneuvers, wind gusts, and buffeting caused by other vehicles can affect trailer handling. Sway control devices may be used to help control these affects. If you choose to use one, contact a reputable trailer hitch supplier to make sure the sway control device will work with the vehicle, hitch, trailer and the trailer's brake system. Follow the instructions provided by the manufacturer for installing and using the sway control device.

Class I hitch

Class I trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 2,000 lb (907 kg).

Class II hitch

Class II trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 3,500 lb (1,587 kg).

The Genuine NISSAN step bumper is considered a Class II ball mount.

Class III hitch

Class III trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 5,000 lb (2,268 kg).

Class IV hitch

Class IV trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 10,000 lb (4,535 kg). A weight distributing hitch should be used to tow trailers that weigh over 5,000 lb (2,268 kg).

Your vehicle may be equipped with Class IV trailer hitch equipment that has a 10,000 lb (4,535 kg) maximum weight rating, but your vehicle is only capable of towing the maximum trailer weights shown in the "Towing Load/Specification" chart earlier in this section.

⚠ CAUTION

- **Special hitches which include frame reinforcements are required for towing above 2,000 lb (907 kg). Suitable Genuine NISSAN hitches, ball mounts and hitch balls for pickup trucks and sport utility vehicles are available at a NISSAN dealer.**
- **The hitch should not be attached to or affect the operation of the impact-absorbing bumper.**
- **Do not use axle-mounted hitches.**
- **Do not modify the vehicle exhaust system, brake system, etc. to install a trailer hitch.**
- **To reduce the possibility of additional damage if your vehicle is struck from the rear, where practical, remove the receiver when not in use.**
- **Regularly check that all trailer hitch mounting bolts are securely mounted.**

Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the Tire and Loading Information label.
- Trailer tire condition, size, load rating and proper inflation pressure should be in accordance with the trailer and tire manufacturer's specifications.

Safety chains

Always use suitable safety chains between your vehicle and the trailer. The safety chains should be crossed and should be attached to the hitch, not to the vehicle bumper or axle. The safety chains can be attached to the bumper if the hitch ball is mounted to the bumper. Be sure to leave enough slack in the chains to permit turning corners.

Information Provided by: DEALER E-PROCESS

Trailer lights

⚠CAUTION

When splicing into the vehicle electrical system, a commercially available power-type module/converter must be used to provide power for all trailer lighting. This unit uses the vehicle battery as a direct power source for all trailer lights while using the vehicle tail light, stoplight and turn signal circuits as a signal source. The module/converter must draw no more that 15 milliamps from the stop and tail lamp circuits. Using a module/converter that exceeds these power requirements may damage the vehicle's electrical system. See a reputable trailer dealer to obtain the proper equipment and to have it installed.

Trailer lights should comply with federal and/or local regulations. For assistance in hooking up trailer lights, contact a NISSAN dealer or reputable trailer dealer. Vehicles equipped with the optional trailer tow package are equipped with a 7-pin trailer harness connector. A flat 4–pin harness is available from your dealer for vehicles without a tow package. If your trailer is equipped with a flat 4-pin connector, an adapter will be needed to connect the trailer lights to the vehicle. Adapters are available at auto parts stores and hitch retailers.

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to federal and/or local regulations and that it is properly installed.

Vehicles equipped with a 7–pin trailer harness connector are pre-wired for a trailer brake controller. See a NISSAN dealer for a trailer brake adapter harness.

⚠WARNING

Never connect a trailer brake system directly to the vehicle brake system.

When towing a trailer load of 3,500 lbs. (1587 kg) or more, trailers with a brake system MUST be used. However, most states require a separate braking system on trailers with a loaded weight above a specific amount. Make sure the trailer meets the local regulations and the regulations where you plan to tow.

Several types of braking systems are available.

Surge Brakes -The surge brake actuator is mounted on the trailer tongue with a hydraulic line running to each trailer wheel. Surge brakes are activated by the trailer pushing against the hitch ball when the tow vehicle is braking. Hydraulic surge brakes are common on rental trailers and some boat trailers. In this type of system, there is no hydraulic or electric connection for brake operation between the tow vehicle and the trailer.

Electric Trailer Brakes -Electric braking systems are activated by an electronic signal sent from a trailer brake controller (special brake-sensing module). If electric trailer brakes are used, refer to "Electric trailer brake controller" in this section.

Have a professional supplier of towing equipment make sure the trailer brakes are properly installed and demonstrate proper brake function testing.

Electric trailer brake controller

Trailers equipped with electric brakes may require the installation of an aftermarket trailer brake controller.

A Genuine NISSAN jumper harness is available that is specifically designed to be used when installing an aftermarket brake controller.

Install the aftermarket electric trailer brake controller according to the manufacturer's instructions.

Information Provided by:
DEALER E-PROCESS

Pre-towing tips

- Be certain your vehicle maintains a level position when a loaded and/or unloaded trailer is hitched. Do not drive the vehicle if it has an abnormal nose-up or nose-down condition; check for improper tongue load, overload, worn suspension or other possible causes of either condition.
- Always secure items in the trailer to prevent load shift while driving.
- Keep the cargo load as low as possible in the trailer to keep the trailer center of gravity low.
- Load the trailer so approximately 60% of the trailer load is in the front half and 40% is in the back half. Also make sure the load is balanced side to side.
- Check your hitch, trailer tire pressure, vehicle tire pressure, trailer light operation, and trailer wheel lug nuts every time you attach a trailer to the vehicle.
- Be certain your rearview mirrors conform to all federal, state or local regulations. If not, install any mirrors required for towing before driving the vehicle.
- Determine the overall height of the vehicle and trailer so the required clearance is known.

Trailer towing tips

In order to gain skill and an understanding of the vehicle's behavior, you should practice turning, stopping and backing up in an area which is free from traffic. Steering stability and braking performance will be somewhat different than under normal driving conditions.

- Always secure items in the trailer to prevent load shift while driving.
- Lock the trailer hitch coupler with a pin or lock to prevent the coupler from inadvertently becoming unlatched.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed.
- When backing up, hold the bottom of the steering wheel with one hand. Move your hand in the direction in which you want the trailer to go. Make small corrections and back up slowly. If possible, have someone guide you when you are backing up.

Always block the wheels on both vehicle and trailer when parking. Parking on a slope is not recommended; however, if you must do so:

⚠ CAUTION

If you move the shift lever to the P (Park) position before blocking the wheels and applying the parking brake, transmission damage could occur.

1. Apply and hold the brake pedal.
2. Have someone place blocks on the downhill side of the vehicle and trailer wheels.
3. After the wheel blocks are in place, slowly release the brake pedal until the blocks absorb the vehicle load.
4. Apply the parking brake.
5. Shift the transmission into P (Park).
6. Make sure the indicator light (if so equipped) indicates the transfer case is in 4H, 4L, or 2H and that the ATP light is off. If the indicator light is flashing, or the ATP light is ON, make sure the transmission is in P (Park) (A/T) and turn the 4WD switch to 2WD or 4H. Refer to "Automatic transmission park warning light" in the "Instruments and controls" section and "Using four wheel drive (4WD)" in the "Starting and driving" section.
7. Turn off the engine.

Information Provided by: DEALER E-PROCESS

To drive away:

1. Start the vehicle.
2. Apply and hold the brake pedal.
3. Shift the transmission into gear.
4. Release the parking brake.
5. Drive slowly until the vehicle and trailer are clear from the blocks.
6. Apply and hold the brake pedal.
7. Have someone retrieve and store the blocks.

- While going downhill, the weight of the trailer pushing on the tow vehicle may decrease overall stability. Therefore, to maintain adequate control, reduce your speed and shift to a lower gear. Avoid long or repeated use of the brakes when descending a hill, as this reduces their effectiveness and could cause overheating. Shifting to a lower gear instead provides "engine braking" and reduces the need to brake as frequently.
- If the engine coolant temperature rises to a high temperature, refer to "If your vehicle overheats" in the "In case of emergency" section of this owner's manual.
- Trailer towing requires more fuel than normal circumstances.
- Avoid towing a trailer for your vehicle's first 500 miles (805 km).
- For the first 500 miles (805 km) that you do tow, do not drive over 50 MPH (80 km/h).
- Have your vehicle serviced more often than at intervals specified in the recommended Maintenance Schedule in the "NISSAN Service and Maintenance Guide".
- When making a turn, your trailer wheels will be closer to the inside of the turn than your vehicle wheels. To compensate for this, make a larger than normal turning radius during the turn.
- Crosswinds and rough roads will adversely affect vehicle/trailer handling, possibly causing vehicle sway. When being passed by larger vehicles, be prepared for possible changes in crosswinds that could affect vehicle handling.

Do the following if the trailer begins to sway:

1. Take your foot off the accelerator pedal to allow the vehicle to coast and steer as straight ahead as the road conditions allow. This combination will help stabilize the vehicle
   - Do not correct trailer sway by steering or applying the brakes.
2. When the trailer sway stops, gently apply the brakes and pull to the side of the road in a safe area.
3. Try to rearrange the trailer load so it is balanced as described in this section.

- Be careful when passing other vehicles. Passing while towing a trailer requires considerably more distance than normal passing. Remember, the length of the trailer must also pass the other vehicle before you can safely change lanes.
- Downshift the transmission to a lower gear for engine braking when driving down steep or long hills. This will help slow the vehicle without applying the brakes.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.
- Increase your following distance to allow for greater stopping distances while towing a trailer. Anticipate stops and brake gradually.
- NISSAN recommends that the cruise control not be used while towing a trailer.

Information Provided by:
DEALER E-PROCESS

- Some states or provinces have specific regulations and speed limits for vehicles that are towing trailers. Obey the local speed limits.
- Check your hitch, trailer wiring harness connections, and trailer wheel lug nuts after 50 miles (80 km) of travel and at every break.
- When launching a boat, don't allow the water level to go over the exhaust tail pipe or rear bumper.
- Make sure you disconnect the trailer lights before backing the trailer into the water or the trailer lights may burn out.

When towing a trailer, final drive gear oil should be replaced and transmission oil/fluid should be changed more frequently. For additional information, refer to "Maintenance and do-it-yourself" section in this manual.

FLAT TOWING FOR ALL–WHEEL DRIVE VEHICLE (if so equipped)

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

⚠ CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Never flat tow your All-wheel drive (AWD) vehicle.**
- **DO NOT tow your All-wheel drive (AWD) vehicle with any wheels on the ground. Doing so may cause serious and expensive damage to the powertrain.**
- **For emergency towing procedures refer to "Towing recommended by NISSAN" in the "In case of emergency" section of this manual.**

FLAT TOWING FOR FRONT WHEEL DRIVE VEHICLE (if so equipped)

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

⚠ CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Whenever flat towing your vehicle, always tow forward, never backward.**
- **Never tow your front wheel drive vehicle with the front tires on the ground. Doing so may cause serious and expensive damage to the powertrain.**
- **DO NOT tow your front wheel drive automatic transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL DAMAGE internal transmission parts due to lack of transmission lubrication.**
- **For emergency towing procedures refer to "Towing recommended by NISSAN" in the "In case of emergency" section of this manual.**

Manual Transmission (if so equipped)

- Always tow with the manual transmission in Neutral.
- On 4-wheel drive vehicles, place the transfer case in the 2H range. Failure to do so will cause the powertrain to bind up.
- After towing 500 miles (805 km), start and idle the engine with the transmission in Neutral for two minutes. Failure to idle the engine after every 500 miles (805 km) of towing may cause damage to internal transmission parts.

Information Provided by: DEALER E-PROCESS

Automatic Transmission (if so equipped)

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacturer's recommendations when using their product.

DOT (Department of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B and C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

⚠WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B and C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat, and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Information Provided by: DEALER E-PROCESS

⚠ WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN vehicle is covered by the following emission warranties:

For USA

1. Emission Defects Warranty
2. Emissions Performance Warranty

Details of this warranty may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

- Nissan North America, Inc.
  Consumer Affairs Department
  P.O. Box 685003
  Franklin, TN 37068-5003

For Canada

Emission Control System Warranty

Details of this warranty may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario, L4W 4Z5

REPORTING SAFETY DEFECTS

For USA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying NISSAN.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or NISSAN.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

Information Provided by: DEALER E-PROCESS

You may notify NISSAN by contacting our Consumer Affairs Department, toll-free, at 1-800-NISSAN-1.

For Canada

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada in addition to notifying NISSAN.

If Transport Canada receives complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may request that NISSAN conduct a recall campaign. However, Transport Canada cannot become involved in individual problems between you, your dealer, or NISSAN.

You may contact Transport Canada's Defect Investigations and Recalls Division toll free at 1-800-333-0510. You may also report safety defects online at: https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/fc-cp.aspx?lang=eng (English speakers) or https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/fc-cp.aspx?lang=fra (French speakers)

Additional information concerning motor vehicle safety may be obtained from Transport Canada's Road Safety Information Centre at 1-800-333-0371 or online at www.tc.gc.ca/roadsafety (English speakers) or www.tc.gc.ca/securiteroutiere (French speakers).

To notify NISSAN of any safety concerns please contact our Consumer Information Centre toll free at 1-800-387-0122.

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST

⚠ WARNING

A vehicle equipped with Four-Wheel Drive (4WD) should never be tested using a two wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment. Make sure you inform the test facility personnel that your vehicle is equipped with 4WD before it is placed on a dynamometer. Using the wrong test equipment may result in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

Due to legal requirements in some states and Canadian Provinces, your vehicle may be required to be in what is called the "ready condition" for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the "ready condition" when it is driven through certain driving patterns. Usually, the ready condition can be obtained by ordinary usage of the vehicle.

Information Provided by: DEALER E-PROCESS

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a “not ready” condition. Before taking the I/M test, check the vehicle’s inspection/maintenance test readiness condition. Place the ignition switch in the ON position without starting the engine. If the Malfunction Indicator Light (MIL) comes on steady for 20 seconds and then blinks for 10 seconds, the I/M test condition is “not ready”. If the MIL does not blink after 20 seconds, the I/M test condition is “ready”. Contact a NISSAN dealer to set the “ready condition” or to prepare the vehicle for testing.

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle’s systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.
- Sounds are not recorded.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a nontrivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g. name, gender, age and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer and NISSAN dealer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR. EDR data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

Information Provided by: DEALER E-PROCESS

OWNER'S MANUAL/SERVICE MANUAL ORDER INFORMATION

Genuine NISSAN Service Manuals for this model year and prior can be purchased. A Genuine NISSAN Service Manual is the best source of service and repair information for your vehicle. This manual is the same one used by the factory-trained technicians working at NISSAN dealerships. Genuine NISSAN Owner's Manuals can also be purchased.

For USA

For current pricing and availability of Genuine **NISSAN Service Manuals,** contact:

www.nissan-techinfo.com

For current pricing and availability of Genuine **NISSAN Owner's Manuals,** contact:

1-800-247-5321

For Canada

To purchase a copy of a Genuine NISSAN Service Manual or Owner's Manual, for this model year and prior, please contact your nearest NISSAN dealer. For the phone number and location of a NISSAN dealer in your area, call the NISSAN Information Center at 1-800-387-0122 and a bilingual NISSAN representative will assist you.

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DEALER E-PROCESS

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Information Provided by:
DEALER E-PROCESS

RECOMMENDED FUEL

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠CAUTION

- **Only vehicles with the E-85 filler door label can operate on E-85. Fuel system or other damage can occur if E-85 is used in vehicles that are not designed to run on E-85.**
- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the NISSAN new vehicle limited warranty.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**

ENGINE OIL RECOMMENDATION:

- Genuine NISSAN engine oil or equivalent
- Engine oil with API Certification Mark
- Viscosity SAE 5W-30

For additional information, refer to “Engine oil and oil filter recommendations” in the “Technical and consumer information” section of this manual.

COLD TIRE PRESSURE:

Refer to the Tire and loading information label.

The label is typically located on the driver side center pillar or on the driver’s door. For additional information, refer to “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual.

RECOMMENDED NEW VEHICLE BREAK-IN PROCEDURE:

During the first 1,200 mi (2,000 km) of vehicle use, follow the break-in procedure recommendations for the future reliability and economy of your new vehicle. For additional information, refer to “Break-in schedule” in the “Starting and driving” section of this manual. Follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

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